

NEWS RELEASE

**CapitaLand wins BCA Green Mark Champion Award**  
***A total of 65 Green Mark Awards have been accorded to the Group's properties in Singapore, China, Vietnam and Malaysia***

**Singapore, 24 May 2012** – CapitaLand Limited is pleased to be accorded the prestigious Green Mark Champion Award by the Building and Construction Authority of Singapore (BCA) at this evening's BCA Awards 2012. To date, CapitaLand has received 65 Green Mark awards (including nine provisional awards): 51 awards in Singapore, 11 in China, two in Vietnam and one in Malaysia.

CapitaLand has also more than doubled its number of Green Mark Platinum properties with five new awards this year, bringing the total to eight. These newly-awarded Green Mark Platinum projects include Bedok Mall and Bedok Residences, both part of an integrated development at the bustling Bedok Town Centre; Bugis+, an existing building that has successfully achieved Green Mark excellence following a S\$38 million transformation that is set for completion in July 2012; Junction 8, an 18-year-old shopping mall that has been refurbished to meet the highest green building standards; and CapitaGreen, slated to be the 'greenest' office building in Singapore's Central Business District with 55% of its façade covered with vegetation.

In addition, CapitaLand has achieved its first Green Mark Gold award overseas this year with Gurney Plaza in Penang, Malaysia. It is the first mall in Malaysia to be awarded Green Mark Gold by BCA. Other overseas properties certified by BCA over the past year include CapitaMall Aidemengdun, Harbin; Citadines Gaoxin Xi'an; and Somerset Heping Shenyang projects in China.

To further its commitment towards corporate citizenship, CapitaLand, through its philanthropic arm, CapitaLand Hope Foundation, has joined BCA in supporting the President's Challenge to help the underprivileged in Singapore.

Mr Liew Mun Leong, President and CEO of CapitaLand Group said: "CapitaLand is honoured to receive the BCA Green Mark Champion Award in recognition of the Group's relentless effort to realise its goal as a top global green developer. At CapitaLand, being an environmentally sustainable company is a natural extension of our credo of 'Building People'. CapitaLand is committed to be a good corporate citizen and to building a greener future, not just for this generation, but for generations to come."

"As we stay committed to caring for our future, CapitaLand's philanthropic arm, CapitaLand Hope Foundation, is pleased to do its part for the President's Challenge once again with a S\$35,000 donation which aligns with the Foundation's focus in supporting the shelter, education and healthcare needs of underprivileged children."

Mr Francis Wong Hooe Wai, Chairman of the CapitaLand Green Committee, said: “CapitaLand has all along been setting green rating targets that are higher than mandatory legal requirements for its development projects. In Singapore we are set to achieve a minimum Green Mark Gold<sup>PLUS</sup> rating for our projects, including new buildings and existing buildings undergoing major renovation. We have signed the BCA Green Pledge to show our commitment to attain higher energy efficiency of our existing buildings through BCA Green Mark certification by 2020.”

Apart from Green Mark Awards, CapitaLand projects also received construction excellence awards Latitude, The Orchard Residences, ION Orchard and The Seafront on Meyer.

Please refer to the **Annex** for a listing of CapitaLand’s 2012 Award Winners and more details on the respective Green Mark award-winning projects.

### **About CapitaLand Limited**

CapitaLand is one of Asia’s largest real estate companies. Headquartered and listed in Singapore, the multi-local company’s core businesses in real estate, hospitality and real estate financial services are focused in growth cities in Asia Pacific and Europe.

The company’s real estate and hospitality portfolio, which includes homes, offices, shopping malls, serviced residences and mixed developments, spans more than 110 cities in over 20 countries. CapitaLand also leverages on its significant asset base, real estate domain knowledge, financial skills and extensive market network to develop real estate financial products and services in Singapore and the region.

The listed entities of the CapitaLand Group include Australand, CapitaMalls Asia, CapitaMall Trust, CapitaCommercial Trust, Ascott Residence Trust, CapitaRetail China Trust, CapitaMalls Malaysia Trust and Quill Capita Trust.

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Analyst Contact

Harold Woo

SVP, Investor Relations

Tel: +65 6823 3210

Email: [harold.woo@capitaland.com](mailto:harold.woo@capitaland.com)

Media Contact

Lorna Tan

SVP, Corporate Communications

Tel: +65 6823 3205/ +65 9791 8597

Email: [lorna.tan@capitaland.com](mailto:lorna.tan@capitaland.com)

## ANNEX

CapitaLand Group is pleased to be accorded the Green Mark Champion Award during BCA Awards 2012. Since last year's BCA Awards, the Group has garnered 19 Green Mark Awards including new and re-certified projects, and five provisional Green Mark Awards for its overseas projects.

To date, CapitaLand has received 65 Green Mark awards (including nine provisional awards): 51 awards in Singapore, 11 in China, two in Vietnam and one in Malaysia.

### CapitaLand's 2012 BCA Award Winners

Property	Award
<b><u>SINGAPORE</u></b>	
Bedok Mall	Green Mark Platinum
Bedok Residences	Green Mark Platinum
Bugis+	Green Mark Platinum
CapitaGreen	Green Mark Platinum
Junction 8	Green Mark Platinum
Sky Habitat	Green Mark Gold <sup>PLUS</sup>
Tenant Service Centre @ Six Battery Road (Located at 6 Battery Road)	Green Mark Gold <sup>PLUS</sup> (Office Interior)
Lot One Shoppers' Mall (Re-certified)	Green Mark Gold
Plaza Singapura (Re-certified)	Green Mark Gold
Wilkie Edge (Re-certified)	Green Mark Gold
Latitude	Construction Excellence Award
ION Orchard	Construction Excellence Award
The Orchard Residences	Construction Excellence Award
The Seafront on Meyer	Construction Excellence Award
<b><u>OVERSEAS</u></b>	
<b>Malaysia</b>	
Gurney Plaza, Penang	Green Mark Gold
<b>China</b>	
CapitaMall Aidemengdun, Harbin	Green Mark Certified
Citadines Gaoxin Xi'an	Green Mark Certified
Somerset Heping Shenyang	Green Mark Certified
CapitaMall Wusheng, Wuhan	Green Mark Gold (Provisional)
CapitaMall Tianfu, Chengdu	Green Mark Gold (Provisional)
CapitaMall Jinniu II, Chengdu	Green Mark (Provisional)
CapitaMall Xuefu, Harbin	Green Mark (Provisional)
Citadines Zhuankou Wuhan	Green Mark (Provisional)

## **Green Mark Platinum projects**

### Bedok Mall (Green Mark Platinum)

Bedok Mall is strategically located at the heart of the Bedok Town Centre. The development will house the new Bedok bus interchange at Level 2 and be directly linked to the Bedok MRT station.

The Green Mark Platinum mall will have highly-efficient mechanical and engineering provisions with a water-cooled air conditioning system for the bus interchange. The water-cooled system uses less energy compared to air-cooled systems. To achieve efficient and effective ventilation at the bus interchange, computational fluid dynamics simulations were carried out.

Green cement will be used for the development's structure. The production of green cement generates less carbon emissions compared to traditional cement. Photovoltaic glass will be installed on public walkway canopies to generate electricity.

To save potable water, all landscaped areas will be fitted with automatic drip irrigation coupled with rain sensors. NEWater is also used for the cooling towers' make-up water and irrigation. In addition, Bedok Mall will feature green educational corners to educate mall visitors on the green features of the mall.

*Estimated energy savings: 7,945,069 kWh/yr; Estimated water savings: 75,509.13 m<sup>3</sup>/yr*

### Bedok Residences (Green Mark Platinum)

Bedok Residences is an integrated development comprising 583 residential units which sits atop Bedok Mall, and is directly connected to Bedok Interchange and MRT station. All eight residential blocks enjoy excellent North-South orientation. High performance tinted laminated glazing of building façade serves both acoustic and shading purposes.

The use of efficient air-conditioning systems, efficient light fittings and lift systems ensure energy efficiency. Solar panels on roof tops harness solar energy to supplement power consumption. Water efficiency is managed through use of '2-ticks' WELS-rated sanitary fittings and wares. All common landscaped areas are also served by an automatic drip irrigation system which is further supplemented by a rainwater collection to cater for the landscaping requirements.

Bedok Residences also features extensive usage of environmentally-sustainable building materials, including drywall partitions, ceiling boards and drainage cells with a minimum 30% recycled content to Singapore Green Label, certified waterproofing as well as precast wheel stoppers with recycled content. Low VOC (volatile organic compounds) paints and low formaldehyde adhesives have also been adopted to ensure the indoor environment is kept to an optimal level.

*Estimated energy savings: 2,816,105.49 kWh/yr; Estimated water savings: 49,740.66 m<sup>3</sup>/yr; RETV: 16.71 W/m<sup>2</sup>*

### Bugis+ (Green Mark Platinum)

Bugis+ is located along Victoria Street in the Bugis arts, culture, learning and entertainment district and linked to Bugis Junction via a bridge at Level 2. The mall has extensive greenery spread throughout the development, providing mall-goers a lush respite.

As part of efforts to go green, the mall's chilled water and condenser water system has been re-designed to better improve the chiller plant system's efficiency. As a PUB Certified Water Efficient Building, all water fittings used in the mall's public restrooms are rated the highest '3-ticks' under the Water Efficiency Labelling Scheme (WELS). The lights in circulation areas have been changed to energy-efficient lights. Where applicable, environmentally friendly products are used in daily maintenance and cleaning works. In addition, electrical and water sub-meters are installed in key locations in Bugis+ to monitor and track their use. This also helps to ensure any wastage and leakage is identified quickly.

Tenants are encouraged to use energy-efficient lights and participate in the mall's recycling programme. To heighten green awareness, public awareness and engagement programmes are held at Bugis+. There will also be a green educational corner at the mall.

*Estimated energy savings: 1,245,850 kWh/yr; Estimated water savings: 4,470 m<sup>3</sup>/yr*

### CapitaGreen (Green Mark Platinum)

CapitaGreen, a joint development by CapitaLand, CapitaCommercial Trust and Mitsubishi Estate Asia, will be a 40-storey Grade A landmark office building when completed in the fourth quarter of 2014. The name, CapitaGreen, signifies the emphasis on the eco-friendly features of the office building which will have net lettable area of about 700,000 square feet. The building's innovative and stunning façade design minimises solar heat gain with an energy-efficient double-skin high-performance glass with low emissivity and extensive vertical greenery. The building's façade will have 55% green ratio which helps to reduce heat gain, while a cool void as the centre core allows air flow through the building.

Other green features will include efficient chillers and zoning to reduce energy consumption. There will be motion sensors for staircases and toilets, and photosensors for offices and sunpipes at restaurants and gym. Rainwater will be harvested to irrigate the building's plants as a water-saving technique. There will also be recovery of demolition materials for recycling.

With all the green features, the estimated energy savings for CapitaGreen is about 4.7 million kWh per year. Based on 500g of carbon dioxide produced per kWh of electricity consumed, we would have saved approximately 11,800 trees. The estimated water savings is about 40,000 m<sup>3</sup> per year, equivalent to amount of water required to fill four Olympic-size swimming pools.

*Estimated energy savings: 4,700,000 kWh/yr; Estimated water savings: 40,000 m<sup>3</sup>/yr*

### Junction 8 (Green Mark Platinum)

Located beside the Bishan MRT interchange station and bus interchange, the 18-year-old Junction 8 has been awarded Green Mark Platinum. The mall has a highly efficient chiller plant, supplemented by a measurement and verification system that monitors the plant's efficiency.

All lights in common areas have been changed to energy-efficient lights like T5 and LED. To minimise carbon emissions, a car park guidance system is in place to guide drivers. Those with hybrid cars can also park at specially designated spaces. Finishes at the toilets are coated with titanium dioxide, which has self-cleansing properties. Junction 8 also features extensive greenery at its roof terrace and the green column at Level 1.

*Estimated energy savings: 2,538,862 kWh/yr; Estimated water savings: 22,502.25 m<sup>3</sup>/yr*

### **Green Mark Gold<sup>PLUS</sup> projects**

#### Sky Habitat (Green Mark Gold<sup>PLUS</sup>)

Sustainability is a key factor in the design concept and massing of Sky Habitat, a 509-unit development in Bishan Central which combines the best of condo and landed living. The stepping design allows more natural light and air into the landscaped deck areas. Bigger windows in the units and common amenities located on higher floors encourage natural ventilation and lighting.

The development conserves precious potable water with its rainwater harvesting design to supplement the water usage for irrigation of the lush greenery. This is further enhanced with efficient automatic irrigation controls with rain sensors.

Other energy-efficient systems include the highly-efficient air-conditioning and vertical transportation system, proprietary ductless mechanical ventilation system for basement car park with carbon monoxide control, sun pipes to supplement the artificial lighting in the basement car park. It also features a pneumatic waste collection system for environmental friendly waste disposal. The development incorporates many other sustainable products and systems, from low VOC (volatile organic compounds) paints to wardrobes and kitchen cabinets, siphonic rain water discharge system and proprietary pressurised rain water discharge system for the terraces, balconies and air-con ledges.

*Estimated energy savings: 7,465,166 kWh/yr; Estimated water savings: 22,535 m<sup>3</sup>/yr; RETV: 20.93W/m<sup>2</sup>*

#### Six Battery Road Tenant Service Centre (Green Mark Gold<sup>Plus</sup> for Office Interior)

Six Battery Road is the first operating office building in Singapore to have won the 2010 Green Mark Platinum Award in recognition of the building's best practices in environmental design and performance. This year, its Tenant Service Centre (TSC) which moved office from 16<sup>th</sup> storey to the basement closer to the entrance of the building, is recognised for its green efforts. Commissioned on 20 April 2011, the TSC has fulfilled CapitaLand's environmental policy of *Reduce, Reuse and Recycle*.

The winning TSC's green features and efforts include converting discarded desk lamps to be reused as task lights at the TSC and 50% of TSC's furniture and office plants were recycled. Motion sensors are installed for the office lightings to switch on and off automatically when there is no motion detected for more than five minutes. The team at TSC has also targeted to reduced paper consumption by 10% after implementing an electronic procurement system.

## **Green Mark Gold projects**

### 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 is a Green Mark Gold mall. To achieve higher energy efficiency, Lot One has upgraded its chiller plant room and changed its light fittings to energy efficient ones.

Photocell sensors have been installed under the skylight to control the operation of artificial lights. These sensors automatically turn on and off depending on the amount of sunlight, thus saving energy. Lot One also has green spaces in the form of a green wall at Level 1 and the roof garden on Level 5.

Rainwater is collected for irrigation purposes at Lot One. The majority of water fittings used at Lot One are rated '2-ticks' ('very good') under PUB's Water Efficiency Labelling Scheme (WELS).

Carbon monoxide sensors have been installed at the car park to ensure it is well ventilated and there is good indoor air quality.

*Estimated energy savings: 1,871,811 kWh/yr; Estimated water savings: 162.48 m<sup>3</sup>/yr*

### Plaza Singapura (Green Mark Gold)

Located along Orchard Road, Singapore's main shopping belt, Plaza Singapura is above the Dhoby Ghaut MRT interchange station, the only interchange with three MRT lines.

The Green Mark Gold mall features a low-emissivity laminated glass façade and roof. This allows natural sunlight to enter the mall, minimising the demand for artificial lighting. The low-emissivity coating also reduces solar heat entering the building.

Plaza Singapura's chiller plant system has been upgraded to optimise its performance. To maintain good indoor air quality, carbon monoxide sensors have been installed at the car park. These also help to achieve energy efficiency of the mechanical ventilation fans of the car park. In addition, NEWater is used for the cooling towers' make-up water and fire sprinklers.

To raise green awareness, Plaza Singapura has issued a Green Guide to its tenants regarding the adoption of green initiatives and to promote the use of energy-efficient and environmentally-friendly products.

*Estimated energy savings: 922,770 kWh/yr; Estimated water savings: 2,299.50 m<sup>3</sup>/yr*

### Wilkie Edge (Green Mark Gold)

Wilkie Edge, a 12-storey mixed use development comprising office and ancillary retail was completed in 2008. Located at the junction of Wilkie Road and Selegie Road, the development offers a variety of retail offerings on the ground floor, three roof gardens on various floors and a distinctive façade featuring an LED screen. Wilkie Edge was awarded Green Mark certification in 2008 and upgraded its rating to Green Mark Gold this year.

Its green features include extensive landscaping, a rooftop garden and vertical greenery.

The office block uses vertical fins and louvers together with external perforated metal cladding to provide sun shading and reduce solar heat gain. There are also light sensors for its atrium sky light, low emissivity glass for façade and sky light, zoning control of light with multiple wiring circuit, as well as low loss ballast for all fluorescent light fittings.

The property uses water fittings with excellent rating, and has an Energy Monitoring System for tracking consumption of carbon, electricity, generator, waste and water. A Building Management System has been installed for energy data logging and data collection for energy audit. Variable speed drives (VSD) are installed for all chilled water and condenser water pump to achieve energy savings.

*Estimated energy savings: about 372,000 kWh/yr*

### **Overseas Green Mark projects**

#### Gurney Plaza, Penang, Malaysia (Green Mark Gold)

Gurney Plaza in Penang is the first mall in Malaysia to be awarded Green Mark Gold by BCA. This is the first such award for CapitaMalls Asia and the CapitaLand Group in Malaysia.

To minimise air and noise pollution, activated carbon filters, ultra violet bacteria eradication light and silencers have been installed in the mall's exhaust systems. Energy-saving measures include changing the car park lights to high performance energy efficient lights.

An underground water and rainwater harvesting system is being installed. This water will be used for the cooling tower make-up water and for toilet flushing. A refuse recycling programme has also been implemented, where paper, plastic, glass and metal are collected and sent to recycling centres. Tenants are encouraged to participate in this recycling programme and have been educated about being environmentally friendly through briefings and circulars.

*Estimated energy savings: 1,500,000 kWh/yr; Estimated water savings: 60,648 m<sup>3</sup>/yr*

#### CapitaMall Aidemengdun, China (Green Mark Certified)

CapitaMall Aidemengdun is located in Harbin, the most north-eastern and coldest provincial capital in China. The mall has been Green Mark certified by BCA.

The mall's dark grey façade comprises high performance double glazed units with low-emissive coating in its glass façade, which help to minimise heat loss in winter.

For energy efficiency, the mall uses LED lights for its façade and has installed skylights at the car park and atrium for natural lighting. Lights at the staircases are activated by motion sensors to conserve energy.

*Estimated energy savings: 663,485 kWh/yr; Estimated water savings: 2,874 m<sup>3</sup>/yr*

#### Citadines Gaoxin Xi'an, China (Green Mark certified)

Citadines Gaoxin Xi'an is located in the centre of Xi'an's Hi-Tech Development Zone. The serviced residence is close to business centres, shopping malls, entertainment facilities and

historic attractions such as the City Wall of Tang Dynasty Park and Antique City of Tang Dynasty.

Citadines Gaoxin Xi'an has installed water conservation taps within the restrooms in the public area and dual flushing cisterns for the bathrooms in all apartments. Energy saving air-conditioning system, electronic ballasts and energy saving lights are used within the serviced residence while LED lights are adopted for its external signage.

Residents have joined in the green movement by opting for no housekeeping on certain days and taking part in the property's annual Earth Hour Day which has been held for four consecutive years. To spread the green message, employees of Citadines Gaoxin Xi'an go paperless and turn off their computers when away from the office.

Somerset Heping Shenyang, China (Green Mark certified)

Located in the heart of Shenyang's main commercial and retail district, Somerset Heping Shenyang is surrounded by a multitude of shopping centres, restaurants and entertainment outlets.

The serviced residence has several green features that help to conserve water and energy. It has installed sensor taps in public areas and dual flush cisterns in all bathrooms within the apartments. Energy saving air-conditioning systems are adopted in both public areas and the apartments. The property also uses LED lights for its external signage while electronic ballasts and energy saving lights are installed within the property.

Besides having green features, Somerset Heping Shenyang has engaged residents to do their part for the environment by opting for no housekeeping on certain days. For four consecutive years, the serviced residence has also organised Earth Hour activities where residents can learn more about environmental protection. In addition, employees of Somerset Heping Shenyang adopt green practices such as going paperless and turning off computers when away from the office.

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