



## NEWS RELEASE

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### CDL Wins the Biggest Share of BCA Awards 2006

City Developments Limited (CDL) has once again been conferred the most number of honours at this year's Building and Construction Authority (BCA) Awards 2006.

CDL walked away with a triumphant 10 awards from three categories including two Green Mark Gold<sup>Plus</sup> Awards, two Green Mark Gold Awards, three Best Buildable Design Awards and three Construction Excellence Awards. The Green Mark Gold<sup>Plus</sup> is a new category this year to recognise exemplary green projects. These wins attest to CDL's position as the leading developer offering quality, innovative and environmentally sustainable projects.

Mr Eddie Wong, General Manager (Projects Division), CDL, said, "We are indeed very honoured as the awards recognise our efforts and help affirm that we are moving in the right direction. This certainly spurs us to develop even greener projects to create new benchmarks of excellence."

The Green Mark Gold Awards, in particular, are testimony to CDL's commitment to a "Safe and Green" culture that emphasizes environmental and occupational health and safety standards in all its projects. Behind this award-winning approach is its Environmental, Health & Safety (EHS) Policy which employs a three-pronged approach to environment management, namely: to *develop* quality properties, *manage* cost-effective and energy-efficient buildings, and *influence* the community.

"Giving back to the community is a key guiding principle at CDL. Through the EHS policy, we constantly push the boundaries of finding new and innovative ways of designing buildings that best benefit the community and the environment," said Mr Wong.

CDL has been accorded multiple Green Mark Awards since it was launched last year. Projects taking the honours this year include City Square Residences, St. Regis Hotel & Residences, The Sail @ Marina Bay and King's Centre Plot 3 development. Last year's Green Mark Award winners include Savannah CondoPark, Residences @ Evelyn, Monterey Park, Parc Emily, The Pier at Robertson, Butterworth 33, Republic Plaza and Pantech 21.

For its continued efforts towards environmental sustainability, CDL has been accorded various accolades including the Singapore Green Plan 2012 Award 2005 by the Ministry of the Environment and Water Resources, Green Office Label Certification (2005-2007) by the Singapore Environment Council and remains the only Singapore developer listed on the coveted FTSE4Good Social Responsibility Index since 2002.

With an excellent track record of over 40 years in property development, CDL's award-winning projects are choice investments embodying prestige, quality and good value.

Please refer to the Fact Sheet for further information about the 10 award-winning projects.

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**FACT SHEET**

**BCA Awards 2006 - List of Award-Winning CDL Projects**

<b>Green Mark Gold<sup>Plus</sup></b>	<ul style="list-style-type: none"> <li>▪ City Square Residences</li> <li>▪ St. Regis Hotel &amp; Residences, Singapore</li> </ul>
<b>Green Mark Gold</b>	<ul style="list-style-type: none"> <li>▪ King's Centre Plot 3 Development</li> <li>▪ The Sail @ Marina Bay</li> </ul>
<b>Construction Excellence Award (CEA)</b>	<ul style="list-style-type: none"> <li>▪ Goldenhill Park Condominium</li> <li>▪ Goldenhill Villas</li> <li>▪ Nuovo Executive Condominium (Merit)</li> </ul>
<b>Best Buildable Design Award (BBDA)</b>	<ul style="list-style-type: none"> <li>▪ The Esparis</li> <li>▪ Savannah CondoPark</li> <li>▪ Monterey Park Condominium (Merit)</li> </ul>

## GREEN MARK GOLD<sup>Plus</sup> AWARD-WINNING PROJECTS

### City Square Residences



City Square Residences is a 910-unit condominium development comprising two 28-storey, one 29-storey and three 30-storey blocks of residential apartments at Kitchener Link.

#### **Highlight:**

Low-emissivity glass is used extensively to minimise the heat transmission from the sun, resulting in residents enjoying a conducive living environment and energy savings from air-conditioning.

#### **Key Green Features & Benefits:**

- Installation of a twin-chute pneumatic waste conveyance system - one for odour-free and pest-free collection of domestic waste and one for recyclable items, promotes recycling amongst homeowners in a convenient and hassle-free way.
- A ductless mechanical ventilation system which incorporates carbon monoxide sensors in the car park. The sensors regulate the car park ventilation fans which are activated when the carbon monoxide level hits a pre-set level.
- Provision of a low maintenance roof garden system, reduces heat transmission and air-con loading for Clubhouse.
- Special waterless, no-flush urinals will be installed at the Clubhouse. These urinals do not require water for flushing but is as effective as the conventional system.
- Four matured trees have been identified for conservation and have been transplanted at the nursery. These trees will be replanted at the adjacent public park to restore the natural habitat for the community.
- A rainwater harvesting system channels rainwater from the roof of the six tower blocks to two rainwater collection tanks located at the basement. The water collected will be used for the irrigation of the landscape.
- The basement construction utilises an innovative circular diaphragm wall design, resulting in reduction of excavated earth by 18% and the quantity of concrete used by 6%.
- The use of pre-fabricated bathrooms help to improve productivity, reduce wastage in a factory-control environment, thereby ensuring a high quality and leak-free bathroom for residents.
- A silt treatment cum water recycling plant using a membrane system has been installed at the construction site to treat the silt and water generated during construction and to recycle the water. The water is then reused for washing and cleaning. This effectively reduces and saves water consumption during construction.
- Innovative use of maintenance-free “sunpipes” utilises reflective technology to bring natural lighting into the three basement car parks at selective locations, thereby reducing the use of artificial lighting at these locations during the day.
- Maintenance-free solar-light fittings such as solar bollards, light emitting tiles and pole lights which reduce energy consumption as no electricity is required to power these lights and tiles.

## **St. Regis Hotel & Residences, Singapore**



St. Regis Hotel & Residences, Singapore, is a mixed development comprising 173 apartment units and 299 hotel guestrooms along Tomlinson Road and Tanglin Road. One hotel tower and two strata apartment towers are built on top of three levels of basement car park.

### **Highlight:**

The first mixed commercial and residential development to significantly reduce façade cleaning costs by using an engineered ceramic façade with self-cleaning properties.

### **Key Green Features & Benefits:**

- A heat recovery system using heat pumps generates hot water for hotel usage. Heat discharged from air-conditioning equipment is used to generate hot water for hotel usage.
- The condensate water from the air conditioning system is recycled within the system to minimise water usage.
- An electrical power optimisation system is designed to increase capacity release for hotel.
- A ductless mechanical ventilation system which incorporates carbon monoxide sensors in the car park. The sensors regulate the car park ventilation fans which are activated when the carbon monoxide level hits a pre-set level.
- Ultra-violet pre-treatment to kitchen exhaust is designed to minimise odours in the air exhaust to the environment.
- Installation of a twin-chute pneumatic waste conveyance system - one for odour-free and pest-free collection of domestic waste and one for recyclable items, promotes recycling amongst homeowners in a convenient and hassle-free way.
- The use of pre-fabricated bathrooms help to improve productivity, reduce wastage in a factory-control environment, thereby ensuring a high quality and leak-free bathroom for residents.
- Computer simulation of sunpath, solar insulation and daylight studies are used for determining effectiveness of interior layouts.
- Application of green products such as recycled or bio-degradable materials for interior fittings of the hotel.
- Rainwater harvesting for rooftop irrigation is designed with rain sensor controls to keep rooftop gardens sustainable.
- A NEWater supply line is designed for the cooling tower make-up tank for the hotel so that the hotel can enjoy substantial savings in ongoing water consumption.
- Performance glass façade is designed to provide optimal thermal insulation for strata apartment units so that end users can enjoy energy savings from reduced use of air conditioning.

## GREEN MARK GOLD AWARD-WINNING PROJECTS

### King's Centre Plot 3 Development



King's Centre Plot 3 development is a 30-storey condominium development comprising of a single tower of 175 residential units with basement car parks, swimming pools and communal facilities, strategically located at Kim Seng Road.

#### **Highlight:**

Water harvesting tanks strategically located above ground level collect rainwater run-off for watering plants. This saves energy consumption as water is channeled downwards from the roof by gravity feed and thereby alleviates the need for a pump. It is also a means of water conservation.

#### **Key Green Features & Benefits:**

- Installation of a twin-chute pneumatic waste conveyance system - one for odour-free and pest-free collection of domestic waste and one for recyclable items, promotes recycling amongst homeowners in a convenient and hassle-free way.
- Extensive use of laminated glass and double-glazing for façade to reduce noise and heat transmission to achieve a conducive indoor environment.
- A silt treatment cum water recycling plant using a membrane system has been installed at the construction site to treat the silt and water generated during construction and to recycle the water. The water is then reused for washing and cleaning. This effectively reduces and saves water consumption during construction
- Two matured trees have been identified for conservation and have been transplanted at the nursery. These trees will be replanted back into the development to restore the natural habitat.
- Motion sensors at private lift lobbies that will activate the lights automatically to conserve energy.
- Maintenance-free solar-powered lights to conserve energy.
- Innovative use of maintenance-free "sunpipes" utilises reflective technology to bring natural daylight into the basement levels, reducing the need for artificial lighting to conserve energy.

## **The Sail @ Marina Bay**



The Sail @ Marina Bay is a six-star waterfront condominium comprising two residential tower blocks standing at 63-storey and 70-storey with a total 1,111 units and an eight-storey car park podium located at Marina Bay.

### **Highlight:**

Singapore's tallest residential development with seamless underground connection to the heart of the city. It has a unique green wall design feature incorporated for the podium car park.

### **Key Green Features & Benefits:**

- Building façade vision panels are double glazed with low-emissive glass at selected areas to reduce noise and heat transmission
- "Green wall" for podium car park to reduce heat transmission.
- Energy efficient lifts incorporated with sleeping mode feature and dual speed drive escalators for retail component.
- Solar panel system designed for communal heated pool to conserve energy.
- Motion detector for lighting system designed in the apartment unit.
- Energy efficient light fittings incorporated with high frequency ballast in common property to reduce future maintenance.
- Ducted kitchen exhaust hood and electric hob designed for all apartments. This minimises indoor air pollutants and enhances apartment air quality.
- A ductless mechanical ventilation system which incorporates carbon monoxide sensors in the car park. The sensors regulate the car park ventilation fans which are activated when the carbon monoxide level hits a pre-set level.
- Computer simulation studies on environmental sun path, solar and wind tunnel are adopted for comfort level.
- Environmental and eco-friendly design for light fittings, dry wall partitions, kitchen appliances and wardrobe.
- Installation of a twin-chute pneumatic waste conveyance system - one for odour-free and pest-free collection of domestic waste and one for recyclable items, promotes recycling amongst homeowners in a convenient and hassle-free way.
- Pre-fabricated unit bathrooms designed to reduce construction waste.
- Basement construction of residential tower utilises diaphragm wall system which creates a clean, neat and safe site during construction.
- Extensive pre-cast slab system adopted for superstructure construction minimises depletion of natural resources such as timber formwork.