



News Release

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CDL SUSTAINS ITS LEADERSHIP IN GREEN BUILDING WITH 40 BCA GREEN MARK AWARDS TO-DATE & THE MOST NUMBER OF GREEN MARK PLATINUM AWARDS AT THE BCA AWARDS NIGHT 2010

Over a decade ago, City Developments Limited (CDL) started on its concerted efforts to 'green' Singapore's built environment, one green building at a time. By investing in green building infrastructure and technology as early as the mid 1990s, CDL gained a strong foundation for sustainable development – paving the way for its industry leadership today.

Since the introduction of the Green Mark Scheme by the Building and Construction Authority (BCA) in 2005, 40 CDL developments have been awarded the BCA Green Mark Awards, of which 10 are of the highest-tier Platinum rating. This represents the highest number of BCA Green Mark Awards presented to a single developer to-date.

CDL has also been accorded other pinnacle accolades from BCA for demonstrating excellence and leadership in sustainable development, such as the first and only recipient of the Built Environment Leadership Platinum Award in 2009 and the inaugural BCA Green Mark Champion Award in 2008.

"Singapore's built environment has transformed in recent years, with the implementation of the Building Control (Environmental Sustainability) Legislation in April 2008. This is timely given the urgency of climate change concerns. There is a real need for the building industry to undertake greater environmental responsibility and mitigate the impact of its activities on the environment. Although CDL has been committed to investing in green infrastructure for our developments for over a decade, we have raised the bar to reflect our unwavering pledge towards sustainability. Since 2008, we have committed to achieving a minimum BCA Green Mark Gold for all our new developments. We've managed to strike a balance between developing sustainable properties and making them financially marketable and viable. As a green pioneer, we hope that our achievements will inspire the rest of the industry," said Mr Kwek Leng Joo, CDL's Managing Director.

This year, CDL achieved yet another industry milestone – its luxury 240-room W Singapore Sentosa Cove attained the first BCA Green Mark Platinum Award for a new hotel development. Apart from seven new BCA Green Mark Awards, which include four Green Mark Platinum Awards for Cube 8, Tree House, Volari, and the W Singapore Sentosa Cove, CDL also received three Construction Excellence Awards, two Design and Engineering Safety Awards and two Universal Design Awards – attesting that more than just being sustainable, CDL's developments are designed with safety, quality and community friendliness in mind.

Please refer to Annex 1 for the full list of awards received by CDL at the BCA Awards 2010 and BCA Green Mark Awards to-date. Refer to Annex 2 for the green fact sheet for CDL's BCA Green Mark Platinum developments awarded this year.

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ANNEX 1

LIST OF CDL'S WINS AT THE BCA AWARDS 2010

Construction Excellence Awards	<ul style="list-style-type: none">▪ Parc Emily (Award)▪ St. Regis Residences, Singapore (Award)▪ The Sail @ Marina Bay (Award)
Design and Engineering Safety Awards	<ul style="list-style-type: none">▪ City Square Residences (Award)▪ City Square Mall (Merit)
Universal Design Awards	<ul style="list-style-type: none">▪ City Square Mall (Gold)▪ City Square Residences (Bronze)
Green Mark Awards	<p><u>Platinum</u></p> <ul style="list-style-type: none">▪ Cube 8 (Residential)▪ Tree House (Residential)▪ Volari (Residential)▪ W Singapore Sentosa Cove (Commercial) <p><u>Gold^{Plus}</u></p> <ul style="list-style-type: none">▪ Pasir Ris Parcel 2 (Residential) <p><u>Gold</u></p> <ul style="list-style-type: none">▪ Millennium Residence @ Sukhumvit (Residential)▪ Plaza By The Park (Commercial)

LIST OF CDL'S AWARD-WINNING GREEN MARK DEVELOPMENTS (2005 – 2010)

2010		
Green Mark Platinum	<ul style="list-style-type: none"> ▪ Cube 8 ▪ Tree House ▪ Volari ▪ W Singapore Sentosa Cove 	Residential Residential Residential Commercial
Green Mark Gold^{Plus}	<ul style="list-style-type: none"> ▪ Pasir Ris Parcel 2 	Residential
Green Mark Gold	<ul style="list-style-type: none"> ▪ Millennium Residence @ Sukhumvit ▪ Plaza By The Park 	Residential Commercial
2009		
Green Mark Platinum	<ul style="list-style-type: none"> ▪ The Residences at W Singapore Sentosa Cove 	Residential
Green Mark Gold^{Plus}	<ul style="list-style-type: none"> ▪ The Arte ▪ Livia ▪ 11 Tampines Concourse 	Residential Residential Commercial
Green Mark Gold	<ul style="list-style-type: none"> ▪ Anderson 18 ▪ New Tech Park ▪ Republic Plaza** 	Residential Commercial Commercial
Green Mark Certified	<ul style="list-style-type: none"> ▪ Pantech 21** 	Industrial
Green Mark for Office Interior	<ul style="list-style-type: none"> ▪ CDL Office (City House Levels 2 & 5) 	
2008		
Green Mark Platinum	<ul style="list-style-type: none"> ▪ Cliveden at Grange ▪ The Solitaire ▪ Tampines Grande 	Residential Residential Commercial
Green Mark Gold^{Plus}	<ul style="list-style-type: none"> ▪ Wilkie Studio ▪ Shelford Suites 	Residential Residential
Green Mark Gold	<ul style="list-style-type: none"> ▪ One Shenton ▪ City House ▪ Fuji Xerox Towers 	Residential Commercial Commercial
Green Mark Certified	<ul style="list-style-type: none"> ▪ Central Mall (Office Tower) ▪ Palais Renaissance 	Commercial Commercial

2007		
Green Mark Platinum	<ul style="list-style-type: none"> ▪ The Oceanfront @ Sentosa Cove ▪ City Square Mall 	Residential Commercial
Green Mark Gold^{Plus}	<ul style="list-style-type: none"> ▪ Buckley 18* 	Residential
Green Mark Gold	<ul style="list-style-type: none"> ▪ Botannia 	Residential
2006		
Green Mark Gold^{Plus}	<ul style="list-style-type: none"> ▪ City Square Residences ▪ St. Regis Hotel & Residences, Singapore 	Residential Mixed Development
Green Mark Gold	<ul style="list-style-type: none"> ▪ Tribeca ▪ The Sail @ Marina Bay 	Residential Residential
2005		
Green Mark Gold	<ul style="list-style-type: none"> ▪ Residences @ Evelyn ▪ Monterey Park Condominium ▪ Parc Emily ▪ Savannah CondoPark ▪ Republic Plaza 	Residential Residential Residential Residential Commercial
Green Mark Certified	<ul style="list-style-type: none"> ▪ Butterworth 33 ▪ The Pier at Robertson ▪ Pantech 21 	Residential Residential Industrial

* Project managed by CDL

** Recertified

ANNEX 2

FACT SHEET

CUBE 8



Cube 8, an exclusive and luxurious contemporary high-rise development with 177-units along Thomson Road boasts a unique and stunning architecture which combines both form and function. Residents of this BCA Green Mark Platinum award winning development will be wowed by the panoramic views of the city and MacRitchie Reservoir Park.

Set amidst the extensive greenery and sky gardens, Cube 8 offers an exclusive garden living within the heart of Singapore.

The development with its numerous energy-efficient features is expected to contribute to annual energy savings totalling 500,000kWh for the entire building.

GREEN FEATURES	BENEFITS
Designed for Energy Efficiency <ul style="list-style-type: none">▪ Installation of high energy efficient rating air-conditioning units with 4 ticks (certified under Singapore Green Label Scheme)▪ Use of motion sensor and energy efficient lightings in common amenities▪ Use of laminated double glazed windows with low-emissivity coating▪ South and west-facing rooms with overhang balconies	<ul style="list-style-type: none">▪ Reduces energy consumption and contributing to the energy savings▪ Prevent heat transmission retaining the required acoustic properties▪ Provide suitable shading against sunlight to moderate room temperature
Designed for Water Efficiency <ul style="list-style-type: none">▪ Water-efficient fittings (under PUB's Water Efficiency Labelling Scheme) are installed in all apartment units▪ Use of water-efficient irrigation system for the landscapes around the vicinity	<ul style="list-style-type: none">▪ Achieves total annual estimated water savings of 5,900 m³
Designed for Good Indoor Environmental Quality and Environmental Protection <ul style="list-style-type: none">▪ Use of Jet Fan system, complete with CO sensors at the basement carpark▪ Extensive use of recycled/recyclable and environmentally friendly building materials (such as Green Concrete, rubber wall and column guard) during construction▪ Pre-cast drains using recycled concrete	<ul style="list-style-type: none">▪ Reduces maintenance costs while the vicinity is well-ventilated▪ Promotes conservation of natural resources
Other Green Features <ul style="list-style-type: none">▪ Twin-chute pneumatic disposal system (for the segregation of domestic and recyclable waste)▪ Provision of green features such as recycling bins and bicycle parking lots and electric car charging lots	<ul style="list-style-type: none">▪ Encourages recycling to protect the environment▪ Encourage residents to adopt a green lifestyle

FACT SHEET

TREE HOUSE



Surrounded by the lush greenery, Tree House is a nature and eco-inspired development that comprises four 24-storey towers with 429 units.

This BCA Green Mark Platinum award winning development not only offers residents the picturesque views of the Bukit Timah Nature Reserve and Upper Peirce Reservoir, but the well-thought development also incorporates numerous sustainable design features that provide dwellers with a green environment.

Approximately 2.7% of the total construction cost was invested into the development of the condominium's green innovations, which is expected to result in energy savings of over 2,442,347 kWh per year and total water savings of 28,968.22m³ per year.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Installation of energy efficient inverter air-conditioning (with 4 Green Ticks Energy Label) and gas heaters for all apartments ▪ Use of heat-reducing laminated green tinted windows ▪ Provision of lifts with Variable Voltage and Variable Frequency motor drive and sleep mode programming ▪ Provision of motion sensors at staircases that will activate lights automatically ▪ Use of T5 and LED lighting for common areas, lobbies and car parks 	<ul style="list-style-type: none"> ▪ Enjoy energy savings from the energy efficient air-conditioners ▪ Helps to reduce external heat gain ▪ Reduction of overall energy cost (estimated at over \$488,000 per year for whole development)
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Installation of water efficient sanitary fixtures and fittings (with Water Efficiency Labelling Scheme) such as tap fittings, shower mixers and water closets ▪ Use of water sub-meters to monitor water usage for key common areas ▪ Rainwater harvesting system for irrigation of landscape 	<ul style="list-style-type: none"> ▪ Achieve water savings ▪ Monitors water usage to detect to help reduce water wastage
<p>Designed for Good Indoor Environmental Quality and Environmental Protection</p> <ul style="list-style-type: none"> ▪ Construction of green walls (that are extended to the west facades) that will act as bio-shading devices ▪ Use of low formaldehyde adhesive for woodworks such as wardrobes, doors and kitchen cabinets ▪ Use of low VOC paints for all internal walls and ceilings 	<ul style="list-style-type: none"> ▪ Serves to cool the environment and reduces the estate's carbon footprints by filtering pollutants and CO₂ from the air ▪ Improves air quality
<p>Design Innovation and Other Green Features</p> <ul style="list-style-type: none"> ▪ Dual-chute pneumatic waste collection system (for the segregation of domestic and recyclable waste) ▪ Takes advantage of the natural sloped terrain of the site by introducing "bio-swales" that aids in the collection of rainwater for landscape irrigation purposes to filter and collect rain water for recycling ▪ Construction of green sky gardens at 7th, 13th and 19th - storeys of each block to create a fresh and healthy living space 	<ul style="list-style-type: none"> ▪ Encourages recycling to protect the environment ▪ Treats surface runoff water through cleansing and filtration of pollutants before being used for other purposes

FACT SHEET

VOLARI AT BALMORAL



Located amidst lush greenery along Balmoral Road, Volari is an exclusive 85-unit, 12-storey luxurious residence that is designed to fully embrace an architectural concept that is as green as its surroundings.

Beyond the development's passive, low-energy architectural design for energy efficiency, this BCA Green Mark Platinum award winning development also incorporated a sustainable construction methodology as part of a concerted effort to reduce carbon dioxide emissions during the development phase.

Approximately 1.45% of the total construction cost was invested into the development of the condominium's numerous green innovations, which is expected to result in energy savings of over 550,913.96 kWh per year.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Use of sunpipes at basement carpark to reduce energy consumption ▪ Installation of gas heaters and 4-ticks air-conditioners in all units for energy savings ▪ Incorporation of smart, energy efficient features such as the Variable Voltage and Variable frequency motor drive and sleep mode programming for all lifts and motion sensors for lighting at common areas ▪ Passive and Low Energy Architectural design with use of 13.52mm thick laminated glass with low U-value and SC-value for facade glazing 	<ul style="list-style-type: none"> ▪ Annual energy savings of approximately 1,840 kWh ▪ Residents can enjoy savings of up to 76% in their electricity bill with the use of gas heaters ▪ Estimated total energy consumption for common facilities of 48.56kWh/m² per year ▪ Reduces indoor temperature
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Water-efficient sanitary fittings (under PUB's Water Efficiency Labelling Scheme) are installed in all apartment units ▪ Installation of water sub-meters to monitor water usage for common facilities such as landscape irrigation, swimming pools, hot tub and all water features ▪ Incorporation of auto irrigation system at communal landscape areas, with drainage system made of 100% recyclable material 	<ul style="list-style-type: none"> ▪ Water savings estimated at 1686.52m³ per year, which equates to about S\$3037.93 per year ▪ Water savings and detection of possible leakage leading to abnormal water consumption ▪ Water savings are enjoyed through the reduction in irrigation frequency as the system operates for up to 2 days without the use of water
<p>Sustainable Construction Methodology Site / Project Development and Management Practices</p> <ul style="list-style-type: none"> ▪ Use of sustainable materials such as green labelled laminates, water proofing system and dry wall partition ▪ Use of materials / products with at least 30% recycled content by weight or volume, including the composite timber at the pool deck, shredded rubber flooring for the playground and plastic for the playground equipment ▪ Adoption of the Cobiax construction method (a light, flat and biaxial slab system) that reduces deflection, foundation loads, building elements, reinforcement and overall structural weight and damage risk 	<ul style="list-style-type: none"> ▪ Promotes conservation of natural resources ▪ Less concrete is used due to a reduction in number of columns by 40% and the slab weight by up to 35%

<ul style="list-style-type: none"> ▪ Implementation of effective environmental management programs to monitor and set targets to minimise energy and water usage during construction ▪ Conservation of eco-system with transplantation of 3 existing trees 	<ul style="list-style-type: none"> ▪ Lowers CO₂ emissions during construction
<p>Designed for Good Indoor Environmental Quality and Environmental Protection</p> <ul style="list-style-type: none"> ▪ Installation of an energy efficient mechanical ventilation system which incorporates carbon monoxide sensors and a ductless jet fan system in the car park ▪ Planting of drought-resistant plants by using compost recycled from horticulture waste ▪ Use of low VOC paints for interior walls in all apartment units 	<ul style="list-style-type: none"> ▪ Reduce maintenance costs, while ensuring safety ▪ Beautifies the surrounding while conserving nature ▪ Improve indoor air quality and enhance the occupational health and comfort of residents
<p>Design Innovation and Other Green Features</p> <ul style="list-style-type: none"> ▪ Dual-chute pneumatic waste collection system (for the segregation of domestic and recyclable waste) ▪ Provision of recycling bins and green gallery at basement carpark ▪ Low height parapet walls and vertical screens built at all fire exit staircases from the 1st level onwards 	<ul style="list-style-type: none"> ▪ Provides a clean and pest free waste disposal environment and encourages recycling as well as environmental conservation amongst residents ▪ Maximise daylight penetration and allow cross-ventilation

FACT SHEET

W SINGAPORE SENTOSA COVE



Set amidst lush tropical greenery and waterways at Sentosa Cove, the luxurious and marine-life inspired 7-storey W Singapore Sentosa Cove hotel offers the idyllic charm of a tropical paradise. Housed within the organic building form are about 240 guestrooms that are oriented to maximise the waterfront views.

Designed with environmental sustainability in mind, W Singapore Sentosa Cove is the first new hotel in Singapore to be awarded the BCA Green Mark Platinum Award, the highest accolade awarded for green developments in Singapore.

Approximately 3.5% of the total construction cost was invested into the development of the hotel's green innovations, which is expected to result in energy savings of over 3,300,000 kWh per year.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Installation of high energy efficient rating centralised air-conditioning system equipment such as chiller and pumps ▪ Use of motion sensor lightings in common amenities such as toilets, staircases and basement carparks ▪ Use of laminated double glazed windows with low-emissivity coating ▪ Inclusion of overhang balconies for south and west-facing guestrooms ▪ Use of the versatile Heat pump Templifier to produce hot water more efficiently while simultaneously producing reusable chilled water as a by-product 	<ul style="list-style-type: none"> ▪ Minimises energy consumption resulting in an annual energy savings of approximately 1,900,000 kWh ▪ Reduces energy wastage and total energy costs ▪ Prevent heat transmission while allowing retention of acoustic properties ▪ Provide natural shading against sunlight ▪ Ability to off-load overloaded boilers and/or cooling towers thus lowering electrical demands to increase capacity or system efficiency that translates to cost savings
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Use of water-efficient sanitary fittings under PUB's Water Efficiency Labelling Scheme in the hotel ▪ Implementation of water-efficient measures such as rainwater harvesting and recycling of air conditioning condensate water 	<ul style="list-style-type: none"> ▪ Annual estimated water savings of 14,600 m³ ▪ Reduces use of potable water
<p>Designed for Good Indoor Environmental Quality and Environmental Protection</p> <ul style="list-style-type: none"> ▪ Use of Jet Fan system, complete with carbon monoxide sensors at the basement car park ▪ Projects an overall tropical paradise theme using natural landscaping designs coupled with wide open spaces ▪ Pre-treated fresh air in all guestrooms and along corridors through the Primary Air Handling Unit 	<ul style="list-style-type: none"> ▪ Reduces maintenance costs while the vicinity is well-ventilated

Design Innovation and Other Green Features

- Installation of sensor feature in all guestrooms' balcony doors that automatically cuts off the air-conditioning system if the doors are left open after a stipulated timeframe

- Reduces energy wastage and total energy costs