



News Release

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FIRST DEVELOPER TO RECEIVE THE PRESTIGIOUS QUALITY EXCELLENCE AWARD – QUALITY CHAMPION (PLATINUM) AND CONSTRUCTION PRODUCTIVITY AWARD – ADVOCATES (PLATINUM) AT BCA AWARDS 2013

As Singapore's property pioneer, City Developments Limited (CDL) has made an indelible impression on the cityscape with numerous award-winning architectural icons over the past 50 years. Beyond stunning architecture, these developments also represent sustainable and innovative design, quality workmanship and buildability.

Attesting to CDL's sustained commitment and holistic approach towards building excellence in all dimensions of a property's lifecycle, CDL is the first developer to receive the prestigious Quality Excellence Award – Quality Champion (Platinum) and Construction Productivity Award – Advocates (Platinum) at the Building and Construction Authority (BCA) Awards 2013 Ceremony, which will be held at Resorts World Sentosa this evening.

Since the 1990s, CDL has been shaping Singapore's built environment by driving building excellence across all dimensions within its value chain and the industry. Through various first-of-its-kind initiatives such as the CDL 5-Star Environmental, Health and Safety (EHS) Assessment System and Awards to enhance the environmental performance and promote quality and construction excellence at its project sites, CDL has achieved many industry benchmarks.

In November 2002, CDL was the first property developer in Singapore to receive the Building and Construction Authority's (BCA) Quality Mark certification for high workmanship standards for the 95-unit The Equatorial condominium. Since then, all CDL residential developments have been certified with this seal of quality excellence.

In addition to harnessing state-of-the-art technology to build better quality homes, CDL has also been exploring new and innovative ways to enhance the buildability and construction quality of each of its development, while achieving resource efficiency, for over a decade. CDL was the first private developer in Singapore to challenge conventional construction methodology and introduce the modular "Lego-style" pre-fabrication construction method for large-scale properties, which improves construction productivity and contributes to cleaner and safer worksites.

One such example is the usage of pre-fabricated bathrooms in the construction of most of CDL's developments since 2005. Replacing the untidy, conventional in-situ construction method, the pre-fab bathroom units are assembled under a controlled factory environment; after which they are transported and installed on-site. Apart from improving coordination and reducing material wastage, this method of construction also serves to enhance the quality and water-tightness of the bathrooms.

"For over a decade, we have harnessed state-of-the-art technology and introduced innovative construction methodology for quality and building excellence at our developments. To drive continual improvement, we work closely with our builders to achieve stringent building quality targets set for each development and have also implemented a rigorous quality management benchmarking system against industry standards. We are indeed honoured to be the first developer to receive the prestigious Quality Champion (Platinum) accolade. We will continue in our strive towards raising workmanship excellence in

Singapore, both within our value chain and for the built environment – with the aim of delivering even higher quality products and bringing greater investment value to our homebuyers,” said Mr Kwek Leng Joo, CDL’s Managing Director.

At this evening’s BCA Awards Ceremony, CDL will receive a total of 23 corporate and project awards, including five new Green Mark awards, marking the Company as the private developer to receive the most number of awards this year. To date, CDL has amassed a portfolio of 67 Green Mark awards, the highest number accorded to a private developer.

CDL’s contributions in ‘greening’ Singapore’s built environment have been well-recognised at the BCA Awards. In 2011, it was the first and only recipient of the prestigious BCA Green Mark Platinum Champion Award and it has remained the sole private developer to be accorded the BCA Built Environment Leadership Platinum Award, which was conferred in 2009.

Globally, CDL is the first Singapore Company to be recognised on three major sustainability benchmarks – FTSE4Good Index Series since 2002, Global 100 Most Sustainable Corporations in the World since 2010 and the Dow Jones Sustainability Indexes since 2011.

Please refer to:

Annex 1: List of CDL’s BCA Awards in 2013

Annex 2: Fact sheet on selected CDL’s BCA Green Mark developments this year

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ANNEX 1

CDL'S BCA AWARDS 2013 – HONOURS ROLL	
CORPORATE AWARDS	
QUALITY EXCELLENCE AWARD	<ul style="list-style-type: none">▪ Quality Champion (Platinum)
CONSTRUCTION PRODUCTIVITY AWARD	<ul style="list-style-type: none">▪ Advocates (Platinum)
PROJECT AWARDS	
GREEN MARK PLATINUM AWARDS	<ul style="list-style-type: none">▪ Echelon▪ M Social Hotel
GREEN MARK GOLD^{PLUS} AWARDS	<ul style="list-style-type: none">▪ D'Nest▪ Jewel @ Buangkok▪ Novotel Singapore Clarke Quay*▪ CDL Office at City House, Levels 2 & 5 (Green Mark for Office Interior)**
CONSTRUCTION EXCELLENCE AWARDS	<ul style="list-style-type: none">▪ Cliveden at Grange▪ Livia▪ One Shenton▪ Shelford Suites▪ The Residences at W Singapore – Sentosa Cove
CONSTRUCTION PRODUCTIVITY AWARDS	<ul style="list-style-type: none">▪ Volari (Platinum)
DESIGN AND ENGINEERING SAFETY EXCELLENCE AWARDS	<ul style="list-style-type: none">▪ The Residences at W Singapore – Sentosa Cove (Merit)▪ Volari (Merit)
UNIVERSAL DESIGN MARK AWARDS	<ul style="list-style-type: none">▪ H₂O Residences (Gold^{PLUS})▪ Livia (Gold)▪ NV Residences (Gold)▪ The Palette (Gold)▪ The Rainforest (Gold)▪ Volari (Gold)▪ 368 Thomson (Certified)

* Hotel owned by CDL Hospitality Trusts.

** Recertified

ANNEX 2

CDL'S BCA GREEN MARK PLATINUM AWARD PROJECTS 2013

ECHELON



Located at the fringe of the city and at the edge of the prestigious Tanglin residential enclave, Echelon is a 508-unit luxury condominium with voluminous sky terraces.

This BCA Green Mark Platinum development is the first CDL development to provide the iPad-based Home Energy Management System (HEMS) for the suites, premium units and penthouses, which allows homeowners to manage and track power usage at home to help save energy bills in real time.

CDL invested approximately 1.5% of the total construction cost into the provision of the condominium's green innovations.

Altogether, the development's green infrastructure is expected to result in energy savings of approximately 2,998,000 kWh per year and total water savings of approximately 87,000 m³ per year.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Passive and Low Energy Architectural design and good building orientation (North-South orientation) ▪ Provision of energy efficient air-conditioning (with 4 Green Ticks under the Mandatory Energy Labelling Scheme) ▪ Use of energy efficient light fittings and motion sensors for lighting at common areas ▪ Cool Paint is used for West and East Facades ▪ Provision of gas water heaters 	<ul style="list-style-type: none"> ▪ Minimise external heat gain ▪ Enjoy energy savings from the energy efficient air-conditioners ▪ Reduces energy consumption ▪ Reflects heat, hence minimising heat gain ▪ Reduces electricity consumption ▪ Achieve overall energy savings of approx. 2,998,000 kWh per year, which translates to approximately S\$800,000 savings annually based on current tariffs
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Installation of water efficient sanitary fixtures and fittings (certified under PUB's Water Efficiency Labelling Scheme) such as tap fittings and water closets ▪ Provision of sub-meters for water features, swimming pool, landscape, etc. 	<ul style="list-style-type: none"> ▪ Minimise water wastage and increase the overall water usage efficiency of each apartment ▪ Allows the monitoring of water consumption for the common areas ▪ Achieve overall water savings of approximately 87,000 m³ per year

<p>Implementation of Sustainable Construction Methodology and Good Indoor Environmental Quality</p> <ul style="list-style-type: none"> ▪ Extensive use of sustainable materials for construction, such as environmentally-friendly materials (certified under the Singapore Green Label or Singapore Green Building Product schemes) such as ceiling boards, external timber decking, pre-cast concrete drain and wheel stoppers ▪ Extensive use of dry wall for internal partitions 	<ul style="list-style-type: none"> ▪ Utilisation of materials with recycled content to minimise impact on the environment ▪ Improve buildability, resource efficiency and productivity
<p>Other Green Features or Eco-Initiatives</p> <ul style="list-style-type: none"> ▪ First CDL development to provide the iPad-based Home Energy Management System (HEMS) for suites, premium units and penthouses. Developed by Japanese-based Daiwa House Industry, HEMS allows homeowners to conveniently manage and track power usage at home to help save energy bills in real time. ▪ Provision of twin chute pneumatic waste collection system (for the segregation of domestic and recyclable waste) ▪ Green Education Corner 	<ul style="list-style-type: none"> ▪ Via the HEMS system, homeowners will be able to obtain a breakdown of energy usage within their apartment unit by zones and track energy usage data history on charts and graphs. Homeowners can also manage energy consumption by setting limits, and will be alerted by the HEMS system when pre-set limits have been exceeded ▪ Encourages recycling to protect the environment ▪ To inculcate environmental awareness in residents and educate them on the green features in the development

M SOCIAL HOTEL



Located at the Robertson Quay neighbourhood alongside the Singapore River, M Social Hotel is a 300-room hotel that will be managed by Millennium & Copthorne Hotels plc (M&C).

The hotel is part of a trendy mixed development that includes the 70-unit UP@Robertson Quay.

Approximately 2.6% of the total construction cost was invested into the development of this BCA Green Mark Platinum hotel's green innovations, which is expected to result in energy savings of approximately 1,212,949 kWh (or approximately S\$242,598) per year and annual water savings of approximately 12,922 m³ (or approximately S\$26,901).

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Selected facades are designed with double glazing and vertical louvers to reduce glare and also enhance thermal comfort in guests rooms ▪ Extensive use of LED lighting, which is highly energy-efficient to reduce electricity use ▪ High efficiency water-cooled chillers for the air-conditioning system significantly reduces energy consumption and cost ▪ Sub-meters provided to monitor energy consumption at common areas 	<ul style="list-style-type: none"> ▪ Achieve energy savings estimated at 1,212,949 kWh per year, equivalent to annual cost savings of approximately S\$242,598
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Water efficient fittings with very good ratings (certified under PUB's Water Efficiency Labelling and Standards Scheme) provided for all guestrooms ▪ Sub-meters provided to monitor water usage for landscaping, water features and swimming pool ▪ Minimise potable water usage by harvesting rainwater for landscape irrigation 	<ul style="list-style-type: none"> ▪ Achieve water savings estimated at 12,922 m³ per year, equivalent to annual cost savings of approximately S\$26,901

Implementation of Sustainable Construction Methodology and Good Indoor Environmental Quality

- Use of sustainable and Singapore Green Label products
- Utilisation of materials with recycled content to minimise impact on the environment
- Use of sustainable materials during construction
- Provides conservation of natural resources

D'NEST



Nestled within the Pasir Ris Grove residential enclave, D'Nest is a 912-unit nature-inspired luxury condominium.

Comprising 12 blocks, the design of the development is based on the concept of a "Green Habitat" to provide a seamless integration with its natural surroundings.

D'Nest has set a new record in Singapore Book of Records (SBOR) for the "Largest Solar Panels In A Condominium". Solar panels measuring a total of 1,520 m² will be installed on the development's roof tops to harness solar energy to off-set the electricity consumption for common areas within the development.

Approximately 2.6% of the total construction cost was invested in green innovation for this BCA Green Mark Gold^{Plus} development.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Sets a record in SBOR for "Largest Solar Panels In A Condominium" with 1,520 m² of solar panels to be installed on the development's roof tops. The solar panels are designed to harness solar power up to 217 kWp and are installed to replace part of the electricity required to power the common areas. The energy harnessed by the solar panels is capable of off-setting most of the electricity consumption for common areas such as the car parks, escape staircases and lobbies. Essential services such as lifts will still be powered up conventionally by grid electricity. ▪ Provision of gas water heaters for majority of the residential units ▪ Installation of energy efficient air-conditioning certified under the Singapore energy labeling scheme (4-Ticks Energy Label) ▪ Design that allows for natural ventilation in common areas like lift lobbies and corridors ▪ Daylighting design for natural daylight to illuminate common areas like lift lobbies and corridors coupled with the use of photo sensors 	<ul style="list-style-type: none"> ▪ The targeted electricity generation of the solar panels system is approximately 600 kWh per day. In a year, this means potentially harnessing 219,000 kWh of energy, which translates into approximately over S\$60,000 saved in electricity bills. This can potentially reduce the monthly maintenance fees payable by residents. ▪ Estimated energy savings of up to 1,511,952 kWh per year for the development ▪ Enjoy estimated energy savings of up to 1,238,658 kWh per year from the highest 4-Ticks energy-efficient air-conditioners ▪ Minimise the use of mechanical ventilation, hence cutting down on electricity consumption ▪ Enjoy estimated energy savings up to 43,884 kWh per year

<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Installation of very good and excellent rating sanitary fixtures and fittings (certified under PUB's Water Efficiency Labelling and Standards Scheme) such as tap fittings and water closets ▪ Provision of rainwater collection system and automatic water efficient irrigation system with rain sensors 	<ul style="list-style-type: none"> ▪ Minimise water wastage and increase the overall water usage efficiency of each apartment ▪ Total annual estimated water savings of up to 41,849 m³, equivalent to 27 Olympic sized pools ▪ Minimise water usage for the estate's landscape watering
<p>Implementation of Sustainable Construction Methodology and Good Indoor Environmental Quality</p> <ul style="list-style-type: none"> ▪ Extensive use of sustainable materials for construction, including green cement in place of ordinary Portland cement in concrete production, eco concrete (Recycled Concrete Aggregates and Washed Copper Slag), eco-friendly materials (certified under the Singapore Green Label or Singapore Green Building Product schemes) ▪ Recycled content in ceiling board, road pavements and pre-cast concrete drain and road kerbs ▪ Utilisation of non-chemical termite treatment system ▪ Extensive use of pre-cast / pre-fabricated components in construction (e.g. Prefabricated Bathroom Unit) 	<ul style="list-style-type: none"> ▪ Utilisation of materials with recycled content to minimise impact on the environment ▪ Reduce toxicity levels of emissions to the environment during the treatment ▪ Improve buildability, resource efficiency and productivity ▪ Improve environmental performance during construction phase
<p>Other Green Features or Eco-Initiatives</p> <ul style="list-style-type: none"> ▪ Provision of 'Eco-Plug' to the residents ▪ Provision of electric vehicle charging points 	<ul style="list-style-type: none"> ▪ Allows residents to plug in their electrical appliances to display, check and record electricity usage and cost ▪ Encourages the usage of eco-friendly electric vehicles

JEWEL @ BUANGKOK



Located beside Buangkok MRT Station, Jewel @ Buangkok is 616-unit residential project, housed within six blocks.

Altogether, the BCA Green Mark Gold^{Plus} development's green innovations are expected to result in energy savings of approximately 2,018,193 kWh per year and total water savings of approximately 38,123 m³ per year.

GREEN FEATURES	BENEFITS
<p>Designed for Energy Efficiency</p> <ul style="list-style-type: none"> ▪ Passive and Low Energy Architectural design and good building orientation (North-South orientation) ▪ Selected balconies are designed with screens consisting of vertical louvers with sliding panels to reduce glare and also enhance the coziness of the living spaces ▪ External walls along east-west facade painted with cool paints to reflect and minimize heat gain ▪ Natural ventilation and day-lighting provided to all common corridors and lift lobbies at all floors ▪ Energy efficient air-conditioners (with 4 Ticks) and gas water heaters provided to all apartment units ▪ Provision of motion sensors to all common corridors, lift lobbies and common toilets to minimise energy consumption at common areas ▪ Energy efficient Lifts with VVRF drive and sleep function mode to allow for low starting current during operation. ▪ Sub-meters provided to monitor energy consumption at common areas ▪ Extensive use of energy efficient light fittings and LED for common areas and motion sensors for lighting at common areas 	<ul style="list-style-type: none"> ▪ Minimise external heat gain and to achieve maximum daylight harvesting ▪ Allow for energy conservation and achieving low Residential Envelope Transmittance Value (RETV) ▪ Residents get to enjoy energy savings from the energy efficient air-conditioners and gas water heaters ▪ Achieve total energy savings estimated at 2,018,193 kwh per year, equivalent to cost savings of approximately S\$403,638 based on current tariff rates, for the entire development
<p>Designed for Water Efficiency</p> <ul style="list-style-type: none"> ▪ Water efficient fittings with very good ratings (under the Water Efficient Labelling Scheme) provided for all apartment units. ▪ Automatic water taps and flushing systems at common areas. ▪ Waterless urinals at Changing Room Male Toilets 	<ul style="list-style-type: none"> ▪ Residents get to enjoy water savings from the water efficient fittings ▪ Achieve water savings estimated at 38,123 m³ per year or equivalent to cost savings estimated at S\$68,672 for the entire development annually.

<ul style="list-style-type: none"> ▪ Sub-meters provided to monitor water usage for landscaping, water features, swimming pools and clubhouse ▪ Use of automatic water efficient irrigation system with rain sensors for minimum 50% of the landscape areas ▪ Minimise potable water usage by harvesting rain-water and recycling for landscape irrigation 	
<p>Designed for Good Indoor Environmental Quality and Environmental Protection</p> <ul style="list-style-type: none"> ▪ Lush green landscaping and eco ponds incorporated in the development ▪ Construction of Rain Garden to detain and treat rain water through using filter media and water plants ▪ Use of low VOC paints for all internal walls to reduce indoor air pollution as well as Singapore Green Label finishings 	<ul style="list-style-type: none"> ▪ Integration of water features with site architecture that not only beautifies the surrounding but encourage biodiversity and brings residents closer to nature ▪ Cleans up the surface runoff water without the use of chemicals and encourages biodiversity in the development
<p>Design Innovation and Other Green Features</p> <ul style="list-style-type: none"> ▪ Provision of double refuse chute with pneumatic waste collection system (for the segregation of domestic and recyclable waste) ▪ Use of sustainable materials during construction ▪ Provision of community planting area to encourage gardening hobby for residents. 	<ul style="list-style-type: none"> ▪ Encourages recycling to minimise waste dumping ▪ Promotes conservation of natural resources