



News Release

13 June 2017

BCA AWARDS 2017 – CDL IS THE MOST-AWARDED PRIVATE-SECTOR PROPERTY DEVELOPER

- *The most-awarded private-sector property developer with a total of 30 accolades*
- *First and only developer to be conferred the inaugural top Quality Star Champion, on top of the Quality Champion (Platinum) award 2017*
- *Only Platinum winner for Construction Productivity Award – Advocates (Developer) Category*
- *Most-awarded developer for Green Mark Pearl including City Square Mall, the first shopping mall to be recognised in this category*
- *Only developer to win the top-tier Green Mark Pearl Prestige award for three consecutive years*
- *CDL's Chongqing Eling Residences is the recipient of the top-tier Green Mark Platinum Award, a first for a residential project in China*

City Developments Limited (CDL) has emerged as the most-awarded private-sector property developer with 30 accolades at the Building and Construction Authority (BCA) Awards 2017. CDL is also the first and only property developer to be awarded the inaugural top Quality Star Champion, and the only developer conferred the Quality Champion (Platinum) Award for five consecutive years.

Mr Grant Kelley, CDL Chief Executive Officer said, "Receiving the inaugural top Quality Star Champion is a testament of our unwavering commitment to quality. Over the years, in our pursuit of quality, CDL has committed our projects for assessment under the Quality Mark scheme to ensure high standards of workmanship. Our developments have also consistently excelled under the Construction Quality Assessment System, even though it is not mandatory for all private sector projects to be assessed. Placing our projects against industry benchmarks for assessments have pushed us to continually strive for quality excellence, establishing our reputation as the built industry leader and enhancing our product differentiation in a highly competitive market."

"As Singapore's pioneer property developer, for more than 50 years, CDL has built a strong track record for quality, design excellence and sustainable development; and our buildings have created value for customers, the community and environment."

Innovating for greater productivity, construction excellence and sustainability

In addition to quality, CDL has pioneered innovations and championed industry-changing construction methods that enhance productivity, construction excellence and environmental sustainability. This is part of its steadfast commitment to achieve a minimum Green Mark Gold^{PLUS} certification for all its new developments – two tiers beyond the mandatory Green Mark certification level. Besides enabling CDL to optimise resources and achieve savings, its innovations and advanced methods have helped to change the way it builds, creating quality, eco-friendly and safe homes and spaces.

As CDL continues to expand its overseas property development business, it has applied the same expertise and standards for its overseas projects. CDL's Chongqing Eling Residences is the recipient of the highest tier Green Mark Platinum Award, a first for a residential project in China. The development leverages on the smart home energy management system that helps residents to track and manage their power usage of various home devices on a single platform, enabling them to save energy in real time. It also features a centralised energy recovery ventilation system which

encompasses multiple functions such as: maintaining a constant indoor temperature, humidity and oxygen level; allowing fresh air intake at pre-programmed time intervals; and reducing the building's energy consumption via its heat exchange feature.

The newly-opened Singapore Sustainability Academy (SSA), a collaboration by CDL and the Sustainable Energy Association of Singapore, is also a recipient of the Green Mark Platinum Award. Located at the Sky Park of CDL's City Square Mall, the SSA is the first building in Singapore to have its construction materials Cross Laminated Timber (CLT) and Glued Laminated Timber (Glulam) verified by the Nature's Barcode™ system as coming from responsible sources. Both CLT and Glulam support the concept of Design for Manufacturing and Assembly to significantly boost productivity. For the SSA, the use of CLT and Glulam increased productivity by more than 30% and saved around 130 man days. Pre-fabricating the timber components off-site also improves efficacy in assembly and keeps on-site pollution to a minimum, resulting in a cleaner and safer worksite.

In recognition of CDL's efforts to raise construction productivity, it is the only Platinum winner for the Construction Productivity Award — Advocates (Developer) Category. In 2014, for example, CDL became the first developer in Asia to adopt the advanced Prefabricated Prefinished Volumetric Construction (PPVC) technology for a large-scale residential project, The Brownstone, a 638-unit Executive Condominium located next to the upcoming Canberra MRT station. In PPVC, building modules complete with finishes, fixtures and fittings are manufactured off-site in factories, then transported to the site for installation in a 'Lego-like' manner. As one of the world's most extensive applications of concrete PPVC for a large-scale private residential development, this is expected to increase productivity by over 40%, compared to conventional methods. PPVC also ensures good quality as the building modules are manufactured in factory with stringent quality control before being assembled on-site, as well as generates less waste for a cleaner and safer worksite.

Extending CDL's lead in tenant engagement

Beyond greening buildings, in line with BCA's 3rd Green Building Masterplan, CDL has also focused on greening the 'software'. By actively engaging its commercial tenants through the CDL Green Lease Partnership programme, CDL has encouraged and enabled them to play a bigger role in the green building movement.

CDL is the most-awarded developer in the Green Mark Pearl category for its sterling efforts in engaging its tenants through the CDL Green Lease Partnership programme. As of December 2016, over 95% of CDL's existing tenants have signed the Green Lease Memorandum of Understanding, pledging their commitment to reduce their energy consumption and environmental footprint.

Furthermore, CDL's Fuji Xerox Towers, a Green Mark Platinum 38-storey office building, is the winner of the top-tier Green Mark Pearl Prestige award, making CDL the only developer to win this top-honour accolade for three consecutive years.

CDL's City Square Mall, Singapore's first Eco-Mall, is also the first shopping mall to achieve the Green Mark Pearl award. Its green features include: light motion sensor at the carpark; energy-efficient light-emitting diode and T5 lights; daylighting provisions; designated recycling corners; food waste EcoDigester for F&B tenants; and eco-messages at various parts of the mall.

Please refer to:

ANNEX A – CDL's full list of BCA Awards 2017

ANNEX B – Fact sheet on CDL's award-winning projects

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ANNEX A

LIST OF CDL'S BCA AWARDS IN 2017

CDL'S BCA AWARDS 2017 – HONOURS ROLL

- The most-awarded private-sector property developer with a total of 30 accolades
- First and only developer to be conferred the inaugural top Quality Star Champion. This award is conferred on top of CDL's Quality Champion (Platinum) award 2017
- Only Platinum winner for Construction Productivity Award – Advocates (Developer) Category
- Most-awarded developer for Green Mark Pearl including City Square Mall, the first shopping mall to be recognised in this category
- Only developer to win the top-tier Green Mark Pearl Prestige award for three consecutive years
- CDL's Chongqing Eling Residences is the recipient of the top-tier Green Mark Platinum Award, a first for a residential project in China

CORPORATE AWARD

QUALITY EXCELLENCE AWARD

- Quality Star Champion
- Quality Champion (Platinum)

CONSTRUCTION PRODUCTIVITY AWARD

Platinum

- Advocate (Developer)

PROJECT AWARDS

CONSTRUCTION PRODUCTIVITY AWARD

Projects — Residential Landed Buildings (Platinum)

- HAUS@SERANGOON GARDEN (landed residential estate at Serangoon Garden Way, completed in 2016)

GREEN MARK PEARL AWARD

Pearl Prestige

- Fuji Xerox Towers (commercial building located near the western fringe of the Central Business District, completed in 1987)

Pearl

- City Square Mall (shopping mall located at Kitchener Road, completed in 2009)
- King's Centre (office-cum-retail waterfront development located at Havelock Road, along the Singapore River, completed in 1999)

GREEN MARK AWARD

Platinum

- Chongqing Eling Residences (luxury residential development located in China, perched on Eling Hill offering panoramic views of China's Yangtze River and

	<p>Jialing River, to be completed in 2017)</p> <ul style="list-style-type: none"> • Singapore Sustainability Academy (first-of-its-kind sustainable and zero-energy building with construction materials certified as coming from responsible sources, completed in 2017) • Central Mall (Office Tower) (office-cum-retail building located along Magazine Road, completed in 1997)*^ • King’s Centre (office-cum-retail waterfront development located at Havelock Road, along the Singapore River, completed in 1999)^ • Manulife Centre (commercial building at Bras Basah Road, completed in 1989)*^ • Palais Renaissance (retail-cum-office complex at Orchard Road, completed in 1993)^~ • Quayside Isle (F&B and retail waterfront development located next to W Singapore — Sentosa Cove, completed in 2012)^ <p><u>Gold^{PLUS}</u></p> <ul style="list-style-type: none"> • The Brownstone (EC at Canberra Drive, completed in 2017) • The Criterion (EC at Yishun Street, to be completed in 2018)
<p>UNIVERSAL DESIGN MARK AWARD</p>	<p><u>Gold^{PLUS}</u></p> <ul style="list-style-type: none"> • Echelon (condominium at Alexandra View, completed in 2016) • Jewel @ Buangkok (condominium at Buangkok Drive and Sengkang Central, completed in 2016) • Lush Acres (EC at Sengkang West Way, completed in 2016) <p><u>Gold</u></p> <ul style="list-style-type: none"> • UP@Robertson Quay and M Social Singapore (mixed-use development located by the Singapore River, completed in 2015)
<p>CONSTRUCTION EXCELLENCE AWARD</p>	<p><u>Award</u></p> <ul style="list-style-type: none"> • Blossom Residences (EC at Segar Road, completed in 2014) • H₂O Residences (condominium at Sengkang West Avenue and Fernvale Link, completed in 2015)

	<p><u>Merit</u></p> <ul style="list-style-type: none"> • Bartley Residences (condominium at Lorong How Sun, completed in 2015) • The Rainforest (EC at Choa Chu Kang Avenue 3, completed in 2015)
GREEN MARK AWARDS FOR OFFICE INTERIORS	<p><u>Gold^{PLUS}</u></p> <ul style="list-style-type: none"> • City House Level 2[^] • City House Level 5[^] <p><u>Gold</u></p> <ul style="list-style-type: none"> • Republic Plaza Level 36[^] • City House Level 3[^] • City House Level 4[^] • City House Level 22[^]

* Owned by Golden Crest Holdings Pte. Ltd. (a joint investment entity between CDL and Alpha Investment Partners Limited through Alpha Asia Macro Trends Fund II). Developed and managed by CDL.

[^] Recertification

- As of 2 June 2017, award to be presented during BCA Awards 2018 ceremony.

Setting Benchmarks at BCA Awards

Year	Achievements
2002	<ul style="list-style-type: none"> • <u>First developer in Singapore to receive BCA's Quality Mark certification for high workmanship standards</u> for The Equatorial condominium
2008	<ul style="list-style-type: none"> • <u>Won the inaugural Green Mark Champion Award</u> for its sustained efforts and outstanding achievement in environmental sustainability
2009	<ul style="list-style-type: none"> • <u>First developer to be accorded the Built Environment Leadership Platinum Award</u> for its excellence and leadership in shaping a safe, high-quality and sustainable built environment in Singapore
2011	<ul style="list-style-type: none"> • Won the <u>inaugural Green Mark Platinum Champion</u>
2013	<ul style="list-style-type: none"> • <u>First developer to receive the prestigious Quality Excellence Award – Quality Champion (Platinum)</u> for its firm commitment and leadership in delivering high quality homes.
2015	<ul style="list-style-type: none"> • <u>First developer to win the inaugural Green Mark Pearl Prestige Award</u> for City House, a Green Mark Platinum building in the Central Business District that demonstrates outstanding total building performance.
2016	<ul style="list-style-type: none"> • <u>Only developer</u> to win top-tier Green Mark Pearl Prestige Award for <u>two consecutive years</u>. • <u>Most-awarded</u> developer in the Green Mark Pearl category, winning <u>three out of the five</u> awards given out. • <u>Only developer</u> to receive top honours, Quality Excellence Award – Quality Champion (Platinum) for <u>four consecutive years</u>, in recognition of its firm commitment and leadership in delivering high quality homes.

ANNEX B

CDL'S PROJECTS EARN TOP HONOURS AT BCA AWARDS 2017

Green Mark Platinum Award

Chongqing Eling Residences (China)重庆鹅岭峰 (中国)



Located at the peak of Eling Hill in Yuzhong district, Chongqing, China, Chongqing Eling Residences is the recipient of the top-tier Green Mark Platinum Award, a first for a residential project in China. Designed by world-renowned architect Moshe Safdie, the 126-unit ultra-luxury residence enjoys an exclusive location endowed with the breathtaking views of the Yangtze River.

The development leverages on the smart home energy management system, a state-of-the-art technology that helps residents to track and manage their power usage of various home devices on a single platform, enabling them to save energy in real time. Another key green innovation at Chongqing Eling Residences is the centralised energy recovery ventilation system which encompasses multiple functions such as: maintaining a constant indoor temperature, humidity and oxygen level; allowing fresh air intake at pre-programmed time intervals; and reducing the building's energy consumption via its heat exchange feature.

In addition, Chongqing Eling Residences features a wide array of energy- and water-efficient features which allow the development to be 36% more energy efficient and 24% more water efficient than other code-compliant buildings in Chongqing city. The development is expected to achieve total energy savings of approximately 2.3 million kilowatt-hours (kWh) per year and total water savings of approximately 20,000 cubic metres (m³) per year. This translates into an estimated reduction of over 1,100 tonnes of carbon dioxide emission each year.

KEY GREEN FEATURES	BENEFITS
<ul style="list-style-type: none"> • High energy efficient air-conditioning and gas water heaters are installed in all residential units • Energy recovery ventilation system • Low emissivity and double-glazed glass • Carbon monoxide sensors installed in the basement carpark • Passive architectural design and extensive greenery provisions 	<ul style="list-style-type: none"> • Reduce energy consumption — overall estimated energy savings of approximately 2.3 million kWh per year • Extract heat from the exhaust air of the building and transfer the heat to the air supply • Minimise solar heat gain • Regulate demand for mechanical ventilation • Mitigate urban heat island effect and solar heat gain
<ul style="list-style-type: none"> • Solar photovoltaic (PV) panels at common areas to harvest energy for outdoor landscape lighting • Usage of sun pipes to induce natural daylighting into the basement carparks • Solar water heaters are installed in clubhouse and kindergarden 	<ul style="list-style-type: none"> • Estimated renewable energy harvested of 50,000 kWh per year

<ul style="list-style-type: none"> • Sanitary fixtures and fittings of high water-saving ratings at all residences • Rainwater harvesting system to collect rainwater for irrigation • Efficient auto-irrigation system is provided • Sub-meters to monitor major water usage such as irrigation and water features 	<ul style="list-style-type: none"> • Estimated water savings of approximately 20,000 m³ per year
<ul style="list-style-type: none"> • Applied sustainable construction methodology and environmental management practices — recycled materials were used extensively in the landscaped deck • Provision of recycling bins 	<ul style="list-style-type: none"> • Promote environmental conservation
<ul style="list-style-type: none"> • Low volatile organic compounds paints for internal walls • Green-certified adhesive products • Central vacuum system 	<ul style="list-style-type: none"> • Improve indoor air quality

Green Mark Platinum Award

Singapore Sustainability Academy 新加坡可持续发展学院



Located at the Sky Park of City Square Mall, the zero-energy Singapore Sustainability Academy (SSA), the recipient of the Green Mark Platinum Award, is a collaboration by CDL and Sustainable Energy Association of Singapore. The Academy is the first major People, Public and Private ground-up initiative in support of global and national goals to tackle climate change.

This is also the first time a local private-sector developer and non-profit organisation teamed up to create a major training and networking facility on sustainability. The SSA aims to promote a low-carbon economy, resource efficiency, and

sustainable practices among businesses and the community, in particular, youths. It will focus on advocacy, building capacity and collaboration, education and training, information and resource sharing as well as user engagement.

In line with its mission to promote sustainability among the industry and community, the SSA is the first in Singapore to have its construction materials, Cross Laminated Timber (CLT) and Glued Laminated Timber (Glulam) verified by the Nature's Barcode™ system as coming from responsible sources. With better strength-to-weight ratio compared with steel or concrete, CLT and Glulam are ideal as construction materials for SSA as the project is built on top of an existing building.

Both CLT and Glulam are game-changing technologies that support the concept of Design for Manufacturing and Assembly to significantly boost productivity. For the SSA, the use of CLT and Glulam increased productivity by more than 30%. Pre-fabricating the timber components off-site improves efficacy in assembly. This also keeps on-site pollution to a minimum, resulting in a cleaner and safer worksite.

The zero-energy building features solar technology with about 3,200 square feet (sq ft) of PV panels extensively covering the 4,300 sq ft SSA which comprises classrooms, a veranda, an office, and an exhibition gallery. It also tracks real-time energy generation and consumption. The made-in-Singapore solar panels are expected to generate an annual energy yield of over 60,000 kWh. This is more than the SSA's estimated annual energy consumption of about 50,000 kWh. There will also be an automation control and energy monitoring system that adapts lighting and air-conditioning to situations, providing maximum energy savings while maintaining full comfort.

KEY GREEN FEATURES	BENEFITS
<ul style="list-style-type: none"> • Use of CLT and Glulam — first in Singapore to be verified by Nature's Barcode™ 	<ul style="list-style-type: none"> • Increased productivity by more than 30% • Harvested from sustainably managed forests • Light yet structurally robust • High thermal performance which reduces cooling costs • Cleaner and safer worksite
<ul style="list-style-type: none"> • About 3,200 sq ft of PV panels • Energy monitoring and management dashboards to track real-time energy generation and consumption 	<ul style="list-style-type: none"> • Estimated energy yield of over 60,000 kWh per year — more than the SSA's estimated annual energy consumption of about 50,000 kWh

<ul style="list-style-type: none"> • Energy-efficient air conditioning and lighting systems 	
<ul style="list-style-type: none"> • High performance façade • Low emissivity and double-glazed glass • Vertical greenery and replanting of greenery 	<ul style="list-style-type: none"> • Mitigate urban heat island effect and solar heat gain
<ul style="list-style-type: none"> • Extensive use of Singapore Green Building Council and Singapore Green Labelling Scheme-certified architectural, mechanical and electrical products 	<ul style="list-style-type: none"> • Promote environmental conservation

Green Mark Pearl Prestige Award
Fuji Xerox Towers 富士施乐大厦



Developed and managed by CDL, Fuji Xerox Towers, a Green Mark Platinum building, is a recipient of the Green Mark Pearl Prestige Award. Located at Anson Road in Singapore’s Central Business District, the 48,688 sqm 38-storey office building was completed in 1987.

Its green features include heat recovery pre-cooled air-handling units (AHUs), natural lighting and ventilation at the atrium, extensive greenery and rooftop garden, bicycle bays and showers facilities.

Under the CDL’s recycling programme, Fuji Xerox Towers has been tracking the paper recycling rate amongst its tenants since 2009. It also recycles lamp tubes, which resulted in over 350 kilograms (kg) of lamp tubes being diverted from landfills. In addition, water-efficient fittings have been installed at all toilets and pantries to conserve water.

CDL also encourages its tenants of Fuji Xerox Towers to implement green practices at their workplace. One such example is Fuji Xerox Singapore, which has adopted the use of energy-efficient office equipment, natural daylighting,

Forest Stewardship Council (FSC)-certified paper materials, Singapore Green Building Product carpets and Singapore Green Labelling Scheme-certified stationeries. This enabled Fuji Xerox Singapore to achieve Green Mark Office Interior (GMOI) Gold^{PLUS} award.

As an incentive to encourage greater energy conservation amongst tenants, CDL also introduced a 1% electricity rebate for those who attain 2% savings over the previous quarter’s bill.

Two of its tenants, Prudential and Conergy, which leveraged on the support of CDL Lease Partnership programme to green fit their premises, attained the GMOI Gold award.

KEY GREEN FEATURES	BENEFITS
<ul style="list-style-type: none"> Heat recovery pre-cooled AHUs 	<ul style="list-style-type: none"> Reduce energy consumption — estimated energy savings of 111,000 kWh per year
<ul style="list-style-type: none"> Natural lighting and ventilation at the atrium 	<ul style="list-style-type: none"> Reduce energy consumption — estimated energy savings of 281,300 kWh per year
<ul style="list-style-type: none"> Extensive greenery and green roof 	<ul style="list-style-type: none"> Mitigate urban heat island effect and solar heat gain
<ul style="list-style-type: none"> Bicycle bays and shower facilities 	<ul style="list-style-type: none"> Promote environmental conservation