

MEDIA RELEASE

TWO PUBLIC AGENCIES ACCORDED BCA GREEN MARK CHAMPION AWARDS

- *People's Association and Defence Science and Technology Agency, named Green Mark Champions this year*
- *Strata-titled building, The Adelphi, to expect potential energy savings of around 2 million kWh/year after retrofitting*

12 June 2017, Singapore – The Building and Construction Authority (BCA) is heartened to give out a record number of Green Mark awards this year, demonstrating the strong driving momentum of Singapore's green building movement.

2. There are more than 350 BCA Green Mark award recipients this year, up from 306 and 221 awards, in 2016 and 2015 respectively.

BCA Green Mark Champion Award Winners

3. The public sector has been taking the lead in greening its buildings. This year, two public agencies - **People's Association (PA)** and **Defence Science and Technology Agency (DSTA)** - have been named BCA Green Mark Champions. To date, there are 15 BCA Green Mark Champions, including public agencies such as the Housing & Development Board (HDB), JTC Corporation and the Ministry of Education. Private developers such as City Developments Limited, Keppel Land Limited and Mapletree Investments Pte Ltd, had also been recognised as BCA Green Mark Champions.

4. Introduced in 2008, the BCA Green Mark Champion award is given to developers with a strong commitment towards environmental sustainability and who have accumulated at least 10 projects rated Green Mark Gold and above, including at least three Platinum and three Gold^{PLUS}.

People's Association

5. PA has embarked on green and sustainable efforts in transforming its community infrastructure since 1990s. To date, its achievements include 13 facilities that are certified

BCA Green Mark Gold and above. They include Ci Yuan Community Club (CC), the first Green Mark Platinum CC and **Bukit Panjang CC**, a Green Mark Gold^{PLUS} project, which saw a strong collaboration between PA, the Community Development Council and grassroots organisations. Bukit Panjang CC has installed solar panels, with one of the most extensive use of rooftop space in existing CCs, as well as sensors for monitoring use of electricity and water. There are also monthly waste monitoring systems, education corners, recycling box for electronic products and a range of green activities to promote environmental sustainability among the residents.

6. This year, PA will also receive the BCA Green Mark Platinum award for **Wisma Geylang Serai**. The project makes extensive use of passive design to achieve a high ratio of natural ventilated community spaces. Architectural elements from the former Malay Village will also be reused in some of architectural design within the building.

Defence Science and Technology Agency

7. DSTA has introduced green and sustainable features in defence facilities, while meeting the operational requirements of the Ministry of Defence and the Singapore Armed Forces (SAF). To date, DSTA has delivered 13 facilities which are BCA Green Mark-certified. These include three BCA Green Mark Platinum facilities – the DSTA Integrated Complex, the Temasek Club, as well as a training and accommodation building for the Army – and two Green Mark Gold^{PLUS} facilities over the last two years.

8. As the form and function of defence facilities vary significantly, DSTA has devised effective solutions for greater sustainability. For example, passive designs were adopted for Army facilities, which maximise natural lighting and ventilation. Building management systems with smart control points were introduced to allow automated adjustment of lighting, cooling and water systems for energy conservation. In addition, initiatives to harness natural energy sources were implemented – including solar panels and light pipes to utilise daylight, active chilled beams with heat recovery to cool buildings by convection, and flushing systems that tap rainwater. Existing SAF camps have been retrofitted by DSTA to be more sustainable, such as by replacing lighting systems that consume the bulk of electrical power in these facilities to energy-efficient LEDs.

Greening Existing Buildings – More Than Just Hardware

9. Besides the Green Mark Champion award, BCA is also giving out Green Mark Awards for other exemplary green buildings.

Old Hill Street Police Station

10. While developers can always plan for and design new green buildings, there may be some challenges in retrofitting existing ones, such as site and space constraints, or when structural works need to be done to alter part of the building to accommodate the load from new equipment. Nonetheless, one of the BCA Green Mark Platinum award winners this year, the 83-year-old **Old Hill Street Police Station (OHSPS)**, has proven that it is possible to retrofit an existing building to improve its energy efficiency, even though it has greater constraints as a conserved building.

11. Improvement works to the building are currently in progress. These include installation of solar panels, and retrofitting of light fixtures and chiller plants. However, the OHSPS team is aware that besides targeting the hardware, there is an even greater need to target the 'heartware' – the mindset and behaviour of the occupants. As such, staff from the Ministry of Communications and Information who are located at OHSPS, have been rolling out green initiatives within the organisation, which includes a "Bring-Your-Own-Cup" campaign to encourage all staff and tenants to reduce usage of disposable items.

The Adelphi

12. **The Adelphi**, a 36-year-old building, is another BCA Green Mark Platinum award winner this year. Their journey to greening the building showcases how like-minded tenants and occupants can collectively make a difference in reducing the carbon footprint when they come together for the same cause. The strata-titled building consisting of more than 250 individual owners who are running different types of businesses – such as audio equipment shops, law firms, and construction firms – made the collective decision on greening the building.

13. The Adelphi will embark on a series of retrofitting works, including improvement works to the chiller plant, as well as installation of LED lighting with high efficacy for the common areas and 30% of the tenants. They are also rolling out initiatives to reduce waste within the building. As an initial investment is needed to retrofit an existing building, the MCST of the Adelphi applied for financial assistance through BCA's Building Retrofit Energy Efficiency Financing (BREEF) scheme and the Green Mark Incentive Scheme for Existing Building and Premises (GMIS-EBP). They engaged an energy service company for a contract period of eight years, to design and implement engineering initiatives to reduce the building's energy consumption, and to guarantee that the energy consumption for the common areas can be reduced by approximately 30%. This means that potential energy savings could amount to around 2.5 million kWh/year, translating to over \$400,000 of savings per year at current tariff rates.

Strong Testament to Singapore's Green Building Efforts

14. Commenting on the bumper crop of BCA Green Mark awards, Mr Ang Kian Seng, BCA Group Director (Environmental Sustainability) said, "It is a strong testament to our efforts in driving the green building movement, in Singapore and even regionally. Through the BCA Green Mark, we want to also reach out to building users and raise awareness of the need to adopt environmentally friendly practices in their daily activities. We are heartened to see many building owners recognising this important aspect and are actively rolling out initiatives to engage their tenants. But more will need to be done and we hope to obtain the strong support of the industry and building users in this next phase of Singapore's green building journey."

15. With the latest batch of BCA Green Mark award winners, there are now more than 3,000 building projects in Singapore that have met the BCA Green Mark standards. This is equivalent to more than 89 million metres square or one-third of the gross floor area for the total building stock. The national target is to green 80% of all buildings by 2030.

16. The BCA Green Mark Platinum and Gold^{PLUS} awards will be given out at the BCA Awards on 13 June 2017 at the Resorts World Convention Centre, a BCA Green Mark Platinum venue.

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About BCA

The Building and Construction Authority (BCA) of Singapore champions the development of an excellent built environment for Singapore. BCA's mission is to shape a safe, high quality, sustainable and friendly built environment, as these are four key elements where BCA has significant influence. In doing so, it aims to differentiate Singapore's built environment from those of other cities and contribute to a better quality of life for everyone in Singapore. Hence, its vision is to have "a future-ready built environment for Singapore". Together with its education arm, the BCA Academy, BCA works closely with its industry partners to develop skills and expertise that help shape a future-ready built environment for Singapore. For more information, visit www.bca.gov.sg.

ABOUT THE BCA GREEN MARK AWARD**Number of BCA Green Mark Awards 2017**

BCA Green Mark Champion	2
BCA Green Mark Pearl Awards	3
BCA Green Mark Platinum	86
BCA Green Mark Gold ^{PLUS}	71
BCA Green Mark Gold & Certified	190
Total	352

About the BCA Green Mark Scheme

The BCA Green Mark scheme was launched in 2005 as a key strategic programme to raise the awareness of sustainable and environmentally friendly buildings. It evaluates buildings for their environmental impact and performance. The benefits of Green Mark Buildings include cost savings resulting from efficient use of key resources such as energy and water, leading to lower operational and maintenance costs. Other less tangible benefits include enhanced occupant productivity and health due to good indoor environmental quality.

Buildings are assessed under the following criteria:

- Energy Efficiency
- Water Efficiency
- Environment Protection
- Indoor Environment Quality
- Other Green Features

Under the assessment system, points are awarded for incorporating environmentally friendly and sustainable features which are better than normal practice. The total number of points obtained translates to the respective award ratings of Certified, Gold, Gold^{PLUS}, and Platinum in ascending order of merit.

BCA Green Mark for Buildings

The **BCA Green Mark Award for Buildings** will be given out for the following building types:

- i. Non-Residential Buildings (New & Existing)
- ii. Residential Buildings (New & Existing)
- iii. Schools
- iv. Landed Houses
- v. Healthcare Facilities

BCA Green Mark Occupant-Centric Schemes

The BCA Green Mark for Occupant-Centric Schemes is catered for the multi-tenanted and multi-functional aspects of:

- the diverse buildings which make up the built environment. A single building may be occupied by different tenants, who
- each have different operational functions. The various schemes under the BCA Green Mark Occupant-Centric schemes
- allow appropriate sustainability benchmarks and criteria to be tailored for the various core operations of tenants within buildings.

The **BCA Green Mark Award winners for the Occupant-Centric schemes** are grouped into the following categories:

- i. BCA Green Mark Award for Office Interior
- ii. BCA Green Mark Award for Supermarkets
- iii. BCA Green Mark Award for Retail
- iv. BCA-IMDA Green Mark Award for Data Centres
- v. BCA Green Mark Award for Laboratories
- vi. BCA Green Mark Award for Restaurants

BCA Green Mark Pearl Award

The **BCA Green Mark (GM) Pearl Award** is a prestigious award that recognises the strong commitment of developers/ building owners/ landlords and tenants of the same project/ building working in tandem to achieve greater environmental sustainability for their project/ building. The Award is given to developers/ building owners/ landlords who have a substantial number of tenants who are GM certified under the GM occupant-centric schemes within a base building which is Green Mark Gold^{PLUS} or higher.

There will be two tiers of the Award:

- **BCA Green Mark Pearl Award**
- **BCA Green Mark Pearl Prestige Award.**

The Awards will be given out for the following three building types:

- Commercial Offices
- Retail Malls
- Business Park Developments

BCA Green Mark (Beyond Buildings)

The BCA Green also aims to recognise good practices in the built environment beyond the building level, in order to ensure all-rounded sustainable and high quality built environment.

This year, projects awarded under the **BCA Green Mark (Beyond Buildings)** are classified under the following:

- **BCA Green Mark Award for Districts**
BCA Green Mark Champion Award

The **BCA Green Mark Champion Award** was launched at BCA Awards 2008. This award recognises developers with strong commitment towards corporate social responsibility and outstanding achievements in environmental sustainability. It is given to developers who achieve a substantial number of Green Mark buildings at Gold level and higher.

In 2016, BCA introduced a new sub-category called the **BCA Green Mark Platinum^{STAR} Champion** in recognition of the efforts of those who have achieved 50 or more building projects with Green Mark Platinum rating.

There are two categories for this award:

- **BCA Green Mark Champion**
- **BCA Green Mark Platinum Champion**
 - **BCA Green Mark Platinum Champion**
 - **BCA Green Mark Platinum^{STAR} Champion**

Besides demonstrating a strong commitment towards corporate social responsibility and environmental sustainability, developers must meet these criteria to qualify:

Total no. of buildings rated	BCA Green Mark Champion	BCA Green Mark Platinum Champion	
		Platinum Champion	Platinum^{STAR} Champion
Green Mark Gold & above	At least 10	At least 50	-
Green Mark Gold^{PLUS} & above	At least 6	At least 30	-
Green Mark Platinum	At least 3	At least 15	At least 50

LIST OF BCA GREEN MARK CHAMPIONS AND PLATINUM AWARD WINNERS**BCA Green Mark Champion Award**

	Developer
1.	Defence Science and Technology Agency
2.	People's Association

BCA Green Mark Pearl Prestige Award

	Building Name	Owner/Landlord
1.	Fuji Xerox Towers	Hong Leong Properties Pte Ltd (Under City Developments Limited)

BCA Green Mark Pearl Award

	Building Name	Owner/Landlord
2.	City Square Mall	City Developments Limited
3.	King's Centre	City Developments Limited

BCA Green Mark Platinum Award (Buildings) (in no particular order)

	Project	Developer/Landlord/Owner
1.	1 Serangoon North	Singapore Telecommunications Limited
2.	313@Somerset	Lend Lease Retail Investments 1 Pte Ltd
3.	47 Jalan Buroh	CWT Limited
4.	Assisi Hospice	Assisi Hospice
5.	Beach Centre	Asiawide Development Pte Ltd
6.	Bugis+	CapitaLand Mall Asia Limited
7.	Campus for Research Excellence and Technological Enterprise (CREATE)	NRF
8.	Canberra Plaza	Housing & Development Board
9.	Central Mall Office Tower	Centro Property Holding Pte Ltd
10.	Das Spektrum@CBP	Rohde & Schwarz Property Singapore Pte Ltd

11.	Development of Camp Facilities at Kranji Camp III for OETI	DSTA
12.	DNV GL Technology Centre	Ascendas Land (S) Pte Ltd
13.	Frasers Tower	FC Commercial Trustee Pte Ltd (as Trustee - Manager of Aquamarine Star Trust)
14.	Grand Park City Hall	Law Ching Hung, Grand Park Property Pte. Ltd.
15.	Great World Serviced Apartments	GWC Serviced Apartments Pte Ltd
16.	HarbourFront Centre	HarbourFront Centre Pte Ltd
17.	Health Promotion Board Building	Health Promotion Board
18.	ITE Headquarters & ITE College Central	Institute of Technical Education
19.	ITE College West	Gammon Capital (West) Pte Ltd
20.	Joo Chiat Complex	Housing & Development Board
21.	JTC Chemicals Hub @ Tuas South	JTC Corporation
22.	JTC Furniture Hub @ Sungei Kadut	JTC Corporation
23.	JTC Space @ Tuas	JTC Corporation
24.	JTC nanoSpace @ Tampines	JTC Corporation
25.	Jurong Port Administration Building	Jurong Port Pte Ltd
26.	Jurong Town Hall	JTC Corporation
27.	Keppel Data Centre Singapore 4	Keppel Datahub 3 Pte Ltd
28.	King's Centre	City Developments Limited
29.	Mapletree Anson	DBS Trustee Ltd as Trustee of MCT
30.	Mapletree Business City	Mapletree Business City Pte Ltd
31.	Manulife Centre	Victorian Holding Property Pte Ltd
32.	Marina Bay Financial Centre (Phase 1)	BFC Development LLP
33.	Micron F10X	Micron Fab
34.	Ministry of Health Proposed Development of Ang Mo Kio Polyclinic and Senior Care Centre	Ministry of Health
35.	Nanyang Technological University Hall of Residence 4	Nanyang Technological University
36.	Nanyang Technological University - Learning Hub North	Nanyang Technological University

37.	National University Hospital Utility Block	National University Hospital (S) Pte Ltd
38.	National University of Singapore Centre for Life Sciences (CeLS)	National University of Singapore
39.	Oasis Terraces	Housing and Development Board
40.	Old Hill Street Police Station	Ministry of Communications and Information
41.	One Raffles Place Tower 2	OUB Centre Limited
42.	One Raffles Quay	One Raffles Quay Pte Ltd
43.	Park Place Residences at PLQ	Verona Central Pte Ltd
44.	Paya Lebar Quarter	Roma Central Pte Ltd / Milano Central Pte Ltd
45.	Pioneer Family Healthcare Centre	Ministry of Health
46.	Prototype Glass House Complex at Horticulture Complex	National Park Board
47.	Quayside Isle	Cityview Place Holdings Pte Ltd
48.	Raffles Hospital Extension	Raffles Hospital Properties Pte Ltd
49.	Research Support Building	Nanyang Technological University
50.	Resorts World Convention Centre	Genting Singapore
51.	Robinson Tower Redevelopment	Superluck Properties Pte Ltd
52.	Singapore Chinese Cultural Centre	Singapore Chinese Cultural Centre
53.	Singapore Sustainability Academy	City Developments Limited
54.	SP Group Building	SPL Property Pte Ltd
55.	Smart Nation Research Cluster	National University of Singapore
56.	Standard Chartered Bank @ Changi Business Park	Standard Chartered Bank
57.	The Adelphi	Management Corporation Strata Title Plan No. 1614
58.	The Treasury	Ministry of Finance
59.	Tiong Seng Building	Tiong Seng Contractors (Pte) Ltd
60.	Wisma Geylang Serai	People's Association
61.	Woh Hup Building	Woh Hup Holdings Pte Ltd
62.	Yishun Polyclinic and Senior Care Centre	Ministry of Health

BCA Green Mark Platinum Award (Office Interior)

	Project
63.	Ascendas-Singbridge Pte Ltd
64.	BCA SkyLab
65.	Credit Suisse AG
66.	DBS Bank Ltd
67.	Dimension Data Asia Pacific Pte Ltd

68.	Ministry of Communications and Information (MCI)
69.	Sunhuan Construction Pte Ltd

BCA Green Mark Platinum Award (Retail, Restaurants, Supermarkets)

	Project
70.	Decathlon
71.	FairPrice Finest Supermarket at JCUBE
72.	Capitol Optical
73.	McDonald's Marine Cove (MRC)
74.	Singapore Post
75.	SSTC Institute

BCA Green Mark Platinum Award (Data Centres)

	Project
76.	70LD (Church Street Properties Pte Ltd)
77.	Equinix SG2 Data Centre
78.	Keppel Data Centre Singapore 4
79.	Singtel DC West
80.	SP Group Building, Data Centre
81.	Telin 3

BCA Green Mark Platinum Award (District)

	Project
82.	Singapore Science Park I

BCA Green Mark Platinum Award (Laboratories)

	Project
83.	Cambridge Centre for Advanced Research and Education in Singapore, a NRF-CREATE programme
84.	NUS Faculty of Science, Chemistry Lab, Tahir Foundation Building (MD1 Level 14)

BCA Green Mark Platinum Award (Overseas Projects)

	Project	Developer/Landlord/Owner
85.	Chongqing Eling Residences (China)	Chongqing Goose Ridge Hill Real Estate Development Co. Ltd
86.	World Bank Group Office Building (Laos)	International Bank for Reconstruction and Development