

Annex A

BCA Green Mark Awards 2014

BCA Green Mark Champion	2
BCA Green Mark Platinum	78
BCA Green Mark Gold ^{PLUS}	47
BCA Green Mark Gold & Certified	100
Total	227

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 BCA 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
- Sustainable Management and Operation
- Indoor Environmental 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 Champion Award 2014

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.

There are two categories for the award:

- BCA Green Mark Champion
- BCA Green Mark Platinum Champion

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

Key Assessment Criteria

Total Number of Buildings Rated	BCA Green Mark Champion	BCA Green Mark Platinum Champion
BCA Green Mark Gold & above	At least 10	At least 50
BCA Green Mark Gold ^{PLUS}	At least 3	At least 15
BCA Green Mark Platinum	At least 3	At least 15

In 2014, there are two BCA Green Mark Champions this year, namely, **Keppel Land Limited** and **Nanyang Technological University**. There is no Green Mark Platinum Champion.

BCA Green Mark Champion 2014 - Keppel Land Limited



Ocean Financial Centre, Platinum, 2008



Keppel Bay Tower, Platinum, 2014



Bugis Junction Towers, Platinum, 2014



Corals at Keppel Bay, Gold^{PLUS}, 2013

Key Achievements

BCA Green Mark Platinum	4
BCA Green Mark Gold ^{PLUS}	5
BCA Green Mark Gold & Certified	23
Total	32

As a global citizen, Keppel Land recognises that resource efficiency is not only its responsibility, but also makes good business sense.

In 2014, Keppel Land was listed in Corporate Knight's prestigious Global 100 Most Sustainable Corporations in the World. The Company was ranked 17th, placing it first in Asia and among real estate companies worldwide.

The Company adopts a proactive approach towards environmental management and protection to create a sustainable future. Keppel Land is dedicated to develop properties that improve the quality of life of communities across Asia through integrating sustainability into our business operations.

For more information on Keppel Land, please visit www.keppelland.com.

For more information about each of the BCA Green Mark buildings and their green features, please visit www.greenmark.sg

BCA Green Mark Champion 2014 - Nanyang Technological University



School of Art, Design and Media, *Platinum*, 2010



Residential Halls at Nanyang Drive, *Platinum*, 2012



Learning Hub at South Spine, *Platinum*, 2012



Residential Halls at North Hill, *Platinum*, 2014

Key Achievements

BCA Green Mark Platinum	8
BCA Green Mark Gold ^{PLUS}	1
BCA Green Mark Gold & Certified	9
Total	18

A fast-rising global university, NTU is a leader in sustainable research with over \$1.2 billion in competitive funding. Under its strategic blueprint, Sustainable Earth is the pinnacle of NTU's Five Peaks of Excellence or research areas in which it aims to make a global mark. The others are Future Healthcare, New Media, Innovation and the Best of East and West.

NTU's lush green campus is a living laboratory for sustainability. Centres at NTU conducting sustainability research include the Earth Observatory of Singapore, Singapore Centre on Environmental Life Sciences Engineering, Nanyang Environment & Water Research Institute, and Energy Research Institute @ NTU.

The centerpiece of NTU's campus is the award-winning building that houses the School of Art, Design and Media with its signature sloping green roof.

For more information on NTU, please visit www.ntu.edu.sg.

For more information about each of the BCA Green Mark buildings and their green features, please visit www.greenmark.sg

BCA Green Mark for Office Interior

The BCA Green Mark for Office Interior is BCA's initiative to promote and recognise environmentally-friendly and sustainable practices of office tenants.

Office buildings make up a significant percentage of the building stock in Singapore. Such buildings may be multi-tenanted, hence the way individual tenanted spaces are operated and maintained may not always be controlled by the building owner.

The BCA Green Mark for Office Interior complements the BCA Green Mark for Buildings by encouraging individual office tenants within buildings to be sustainable. The scheme is applicable to both existing and new offices that have or have not undergone renovation.

The scheme, launched in 2009, has since been gaining momentum with the industry, with its take-up rate being on the rise each year. Offices are evaluated under the following criteria:

- Energy Efficiency
- Water Efficiency
- Sustainable Management and Operation
- Indoor Environmental Quality
- Other Green Features

Credit Suisse AG (Green Mark for Office Interior, Platinum)



Tenant/Owner	Credit Suisse AG
Architect	HASSEL Design Pte Ltd
Contractor	Shimizu Corporation
Facility Manager	Confluence Project Management
M&E Consultant	BESCON Consulting Engineers Pte Ltd
Project Manager	Confluence Project Management Pte Ltd
Landscape Consultant	Ecoflora Pte Ltd
Acoustic Consultant	Hewshott Pte Ltd
Lighting Consultant	iLAB Pte Ltd
Commissioning	AT Advanced Technology Asia Pacific Pte Ltd
ESD Consultant	KAER Pte Ltd

Key Features:

- Zoning of air-conditioned and lighting areas and 100% flexible smart working electronic desk search system, and the use of thin clients result in significant energy savings during low usage period.
- Use of energy efficient LED lighting throughout the office results in an average of Lighting Power Budget (LPD) of 8.2 w/m² (> 40% energy savings).
- Extensive use of environmental friendly and reused products, finishes and furniture.
- Motion sensors are applied throughout the office at >90% of the GFA to eliminate unnecessary energy consumption. Task lighting also allows individuals to control the lighting brightness.
- More than 97% energy star equipment, 4-tick fridges, AAA dishwasher. Sleep modes are applied to >90% of the equipment.
- Real time monitoring and live display of energy and water consumption with green tips and user guides are available for individual user to download and track.
- WELS-excellent tenant water fittings, remote SMS messaging for leak detection, drought tolerant plants, and NEWater provision reduce potable water consumption.
- Open stairs and escalators with sleep mode function increase inter-level interaction and reduce burden on lifts.