

The BCA-CDL
Green Sparks
Competition 2010



RULES &
GUIDELINES

1. Introduction

Green buildings are gaining in popularity as countries worldwide explore ways to reduce their carbon emissions.

In Singapore, our buildings and households account for about half of our nation's total electricity consumption. In particular, our large existing building stock consumes a third of our national end-use electricity. Hence, the BCA's 2nd Green Building Masterplan places special emphasis on greening existing buildings.

Greening existing buildings is the theme of this competition, which is a public-private partnership between BCA and CDL.

Through this competition, the organisers aim to achieve the following:

- a. Nurture tertiary students in designing passive low energy buildings and optimising the building performance of existing buildings
- b. Educate students on the "greening" of existing building through the application of good energy saving design, clean energy and green building technologies
- c. Bring future architects, designers, engineers and environmentalists to appreciate the social, economic and technological challenges of green building design and the importance of taking an integrated design approach together from Day One

2. Objectives of the Competition

- a. Teams must submit a proposal to retrofit the existing Fuji Xerox Building into an exemplary green building, with the key objective of reducing the building's energy consumption and lowering its carbon footprint.
- b. The retrofitted building should achieve the BCA Green Mark Platinum status. Currently, Fuji Xerox has attained BCA Green Mark Gold.

The BCA Green Mark Scheme is a green building rating system to evaluate buildings' environmental impact and performance. The Green Mark assesses five key areas:

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

Green Mark for Non-residential Existing Buildings Criteria (Ver. 2.1) can be downloaded from: www.bca.gov.sg/GreenMark/others/GM_NREB_V2.1.pdf

3. Rules

Number of Teams and Team Members

- a. There is no limit to the number of teams from each tertiary institution.
- b. Each team must comprise of **five** (minimum) **to ten** (maximum) members.
- c. The competition is open to all Singapore Citizens and Permanent Residents residing in Singapore. International students holding student passes of **local** tertiary institutions are eligible, but the team must comprise at least one Singapore Citizen/PR.
- d. Team members must be full-time students of **local** tertiary institutions (diploma or bachelor degree) as at 1 April 2010.

Submission

- e. Each participating team is required to submit the following documents:
 - A completed Entry Form and photocopies of the NRIC/Student Pass of all members (front and back)
 - **Six** original hard copies of Concept Paper
- f. The documents in 3(e) must be submitted by **25 June 2010, 4pm (by hand)** to the organiser at the following address:
c/o Star Horizon Learning Pte Ltd
520 North Bridge Road,
#05-01 Wisma Alsagoff
Singapore 188742
- g. Late submissions will not be accepted.
- h. The Concept Paper must not exceed 10 pages, including Executive Summary, excluding Annexes.
- i. Concept Paper must be typewritten in Single paragraph, Arial 12pt font, 1 inch margins from all sides; A4 size paper.
- j. Applications that did not adhere to the formats in 3(h) and 3(i) will be penalised. The penalty is at the discretion of the judges.

- k. The Concept Paper must include the following:
- (i) Executive Summary (2 pages, maximum)
 - (ii) Explanation of Key Green Features/Technologies, which should be grouped under the 5 Green Mark criteria of Energy Efficiency, Water Efficiency, Sustainable Operation and Management, Indoor Environmental Quality, Other Green Features.
(Innovation or new ideas used should be highlighted. Replicability of technology used and measures implemented should also be explained.)
 - (iii) Environmental Impact, including estimated effect on energy consumption
 - (iv) Economical Effect
 - (v) Other Tangible and Intangible Benefits
- l. All works submitted must be recent and original, and must not have been previously entered in any national, regional or international exhibitions and/or competitions, or subject to any form of copyright protection in any country, whether in part or in whole.
- m. Winning designs will be the intellectual property of CDL. However, innovative new building technologies with potential to be patented will remain the property of the tertiary institution/ students.

Attendance for Final Competition

- n. All shortlisted finalists are required to present their project to the panel of judges at the Final Competition on **31 August 2010 (tentative date)**. All team members must be present or a penalty may be imposed.
- o. Failure to attend the Final Competition might result in disqualification of the team.

4. Judging Criteria and Procedure

- a. Scores will be allocated based on the following table:

Energy Savings and Environmental Benefits	35
Feasibility/ Cost Effectiveness	30
Creativity	15
Replicability	10
Presentation	10
Total	100

- b. Scores will be determined based on the Concept Paper and presentation to the panel of judges at Final Competition.
- c. All entries will be judged by a panel of industry experts in green buildings.

The panel of judges are:

Chief Judge

- Er Lee Chuan Seng, President, Singapore Green Building Council

Judges

- Mr Tan Tian Chong, Director, Technology Development Division, Building and Construction Authority
- Mr Lim Tow Fok, General Manager, Property & Facilities Management, City Developments Limited
- Mr Tai Lee Siang, Director, DP Architects Pte Ltd
- Mr Vincent Low, Director, G-Energy Global

- d. A pre-judging panel from BCA will shortlist 8 entries for Final Competition.
- e. The judges' decision is final. No correspondence will be entertained.

5. Prizes

First Prize	S\$10,000 cash and plaque
Second Prize	S\$7,000 cash and plaque
Third Prize	S\$5,000 cash and plaque
5 Merit Prizes	S\$1,000 cash and certificate of participation