



pillars

2007 Issue 02

**New
Appointments
for BCA Board**

**Greening
the Built Environment**

Accessible Funding

**International
Panel of Experts**

Building and Construction  Authority

We shape a **safe**, **high quality**, **sustainable** and **friendly** built environment

**Sustainable Construction:
Building for Future Generations**

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The Editor, Pillars if you send by post or fax to the BCA address above stated. Alternatively, you can email to bca_enquiry@bca.gov.sg.

New appointments for **BCA Board**



Mr Quek See Tiat
New BCA Chairman

The 5th BCA Board was appointed on 1 April 2007, where BCA welcomed its new helmsman and four new crew members onboard to join its quest in forwarding BCA's strategic thrusts with even greater vigour.

Coming from diverse backgrounds ranging from the building industry to the media, electrical and structural engineering arenas, the four new members are set to bring different perspectives and offer fresh viewpoints to BCA. Appointed as board members for a two-year term, they are: Mr Cheong Yip Seng, Editorial Advisor, Singapore Press Holdings Ltd; Mr Pek Lian Guan, Managing Director, Tiong Seng Contractors Pte Ltd; Mr Song Wee Ngee, Managing Director, KTP Consultants Pte Ltd and Mr Tan Peng Yam, Deputy Chief Executive (Technology), Defence Science & Technology Agency.

BCA's newly appointed Chairman is Mr Quek See Tiat who, having served in the BCA Board for one term as Deputy Chairman and previously for 2 terms as a Board Member is no stranger to BCA.

As Partner and Deputy Chairman of PricewaterhouseCoopers, Singapore, Mr Quek is well respected in the accounting and audit circles. Stepping up as BCA's new helmsman, Mr Quek's experience as Deputy Chairman will give him an added edge in terms of continuity and familiarity with BCA's mission and its tasks ahead. On his new role and forging BCA's vision, Mr Quek said, "I am honoured to be entrusted with this new leadership role. As I strive to build on the excellent work of my predecessor, Mr John Lim, I am confident that together with the other Board members and all in BCA, we will be able to successfully shape a sustainable first class built environment."

As the 5th BCA Board moves ahead, we would like to express greatest thanks and appreciation for Mr John Lim, who has served on the BCA Board since 2001, as well as the five other board members, namely Mr Gan Hiang Chye, Mr Tan Pheng Hock, Mr Renny Yeo, Mr Eugene Yong Kon Yoon and Mr Quek Tong Boon who had all made invaluable contributions to the Board during their respective terms.



Mr Cheong Yip Seng



Mr Pek Lian Guan



Mr Song Wee Ngee



Mr Tan Peng Yam



Greening the Built Environment

What is a green and sustainable building?

The concept of such buildings was hard to define in the past. But today, many more countries are working towards achieving a sustainable society. This has been due in part to growing global concerns on the environmental impact of the built environment and the rising energy costs, which have resulted in greater interest in the environmental impact of construction projects.

So much interest has been generated on the subject of green and sustainable buildings that the BCA Green Mark Seminar held on 20 March 2007 was a roaring success. In overwhelming response, building professionals congregated in the pursuit of environmental sustainability in the construction industry.

At the event, guest-of-honour Ms Grace Fu, Minister of State for National Development, reiterated the need for greater push for green buildings as part of the national efforts towards environmental sustainability. Mandating requirements on environmental sustainability for new buildings and existing ones undergoing major retrofitting works would be among the measures considered to create a more sustainable built environment.



BCA CEO with Guest-of-Honour, Ms Grace Fu. Ms Fu launched the BCA Green Mark Info-Portal, which aims to educate the public on the benefits of green buildings.

Dr Toshiaki Fujimori from Shimizu Corporation (Japan) was invited to shed light on the latest international trends in green building technologies, especially how the Japanese construction industry had turned to the use of steel and recycled concrete to sustain its building programme.

To address the stigma that going green was both costly and inconvenient, Mr Gary Christensen, Founder of The Christensen Corporation, shared his experience in achieving the much coveted LEED Platinum level certification for the Banner Bank building.

He further demonstrated that construction cost was not the most important consideration as going green would add greater value to an investment property.



The seminar also showcased how several exemplary BCA Green Mark buildings undertook greening efforts to raise their buildings' sustainability. Seminar participants also understand more about the latest developments on energy modeling and Envelope Thermal Transfer Value (ETTV) studies.

Positive feedback received from the seminar participants reflected the strong interest in environmental sustainability in the building industry. Responding to this encouragement, BCA would be organising more of such events to facilitate knowledge exchange in greening the built environment for our country and people.

Log on to www.greenmark.sg
Information on BCA's Green Mark has gone online. The recent seminar has launched this new info-portal to raise the level of green-mindedness among home consumers, including topics such as energy savings, water savings and good indoor environmental performance. It is the first of its kind in the region. Check it out today!



Taking the Environment Seriously

HDB Eco-Precinct at Punggol



The issue of environmental sustainability in Singapore's construction industry is even more pressing given the constraints of resources and land.

This message was emphasised by Mr Mah Bow Tan, Minister for National Development who was guest-of-honour at the inaugural Housing & Development Board (HDB) Eco-Buildings Conference and Eco-Carnival on 28 March 2007. In his speech, Mr Mah urged Singaporeans to be strongly committed to environmental sustainability and to keep pace with overseas counterparts who had already gone full steam in the advocacy of building green.

At the conference, Mr Mah launched the HDB Eco-Precinct at Punggol development, which was the proud culmination of the years of work by HDB in the area of environmental sustainability. This project had recently garnered the coveted BCA Green Mark Platinum award.

BCA was invited to share its expansive efforts and measures undertaken to create a green built environment. Mr Tan Tian Chong, Director of Technology Development, presented a very comprehensive picture of BCA's Green Building Masterplan and reiterated the pressing need for the industry to adopt sustainable construction to benefit the environment, economy and people. Supporting HDB's objective to showcase the first Green Mark Platinum Eco-Precinct, Mr Tan also gave an insightful overview of the BCA Green Mark assessment criteria for residential buildings.

While there remained much to be learnt and done in the journey to green the built environment, the launch of the first HDB Green Mark Eco-Precinct was indeed a milestone for the industry's quest towards environmental sustainability in public housing.



Guest-of-honour, Mr Mah Bow Tan, visiting BCA's booth at the Eco-carnival

Fun with Green

Members of the public participated in a fun-filled HDB Eco-Carnival held in conjunction with the HDB Eco-Buildings Conference. Through games and informative booths, they found out how they too could play a part for the environment.

BCA joined in the excitement with HDB and other agencies such as the National Environment Agency, National Parks Board and Public Utilities Board. The BCA booth showcased outstanding green features in homes and information on the BCA Green Mark. Both the young and old had fun at BCA's Spot-The-Difference game, while at the same time learnt more about the features in a green building.



By playing fun games at BCA's booth, the public's awareness of green buildings was heightened.

Towards Clean Energy

BCA co-leads the new Clean Energy Programme Office

BCA has been given a key role in the newly established Clean Energy Programme Office. This new Office is expected to boost clean energy adoption in buildings in Singapore, backed by \$350 million in government funding for technology development.

The Office will be led by two co-Executive Directors, namely BCA's Chief Executive Officer Dr John Keung and Economic Development Board's Managing Director Mr Ko Kheng Hwa.

Environmental and Water Technologies (EWT) Steering Committee

Chaired by Dr Tony Tan, Chairman National Research Foundation

Clean Energy Executive Committee (EXCO)

Chairman: Lim Siong Guan, Chairman Economic Development Board (EDB)
Co-Chairman: Chang Chie Foo, Chairman Energy Market Authority

Clean Energy Programme Office (CEPO)

Co-Executive Director: Ko Kheng Hwa, Managing Director EDB
Co-Executive Director: Dr John Keung, CEO BCA

BCA will be involved in technology development and test-bedding to raise the efficiency and lower the costs of various clean energy technologies. These efforts will be combined with the capabilities brought in by the Economic Development Board, research institutes and the industry. In addition, BCA will continue to promote the application of clean energy technologies actively in Green Mark buildings and work with other agencies to review the regulatory framework to facilitate the adoption of clean energy technologies.

Today, more industry practitioners have been looking at clean energy applications, especially solar energy. This has been due in part to greater awareness generated by the BCA Green Mark scheme launched two years ago. Since then, the industry has seen the adoption of fuel cells at Tan Tock Seng Hospital and the Building Integrated Photo Voltaic in Green Mark buildings, such as City Development Limited's Savannah CondoPark and Jurong Town Corporation's Biopolis.

Photo Voltaic installations in Savannah CondoPark and Biopolis



ACCESSIBLE FUNDING

As Singapore prepares for an ageing population, the Government is providing financial support for building owners to create a continuous and seamless barrier-free built environment for people of different ages and abilities.

The Singapore Government has set aside a \$40 million Accessibility Fund to support the retrofitting of basic accessibility features for existing privately-owned commercial and institutional buildings. This is part of BCA's five-year Barrier-Free Accessibility programme to develop Singapore into a truly accessible city by 2011.

The Accessibility Fund helps to defray capital costs of providing basic accessibility features in commercial and institutional buildings. It co-pays up to 40 percent of the cost for basic accessibility upgrading work, subject to a cap of \$150,000 per building.

Such works include:
Accessible approach to building
(preferably the first storey main entrance)

Accessibility within the first storey level

Accessible toilet at the first storey

Building owners or lessors who have the ownership right to upgrade the building and lessees who carry out the upgrading works with the endorsement of the building owners or lessors are eligible to apply for the Accessibility Fund.

Details on the Accessibility Fund application are available at the BCA website at www.bca.gov.sg. For further clarifications, please write to bca_bfa_upgrading@bca.gov.sg or call the BCA Accessibility Hotline at 6325-8611.



Sustainable Construction: Building for Future Generations

The sustainability campaign received a rousing kick start with the Exhibition on Sustainable Construction at the URA Centre from 23 April to 11 May 2007. The exhibition was co-organised by BCA and the Singapore Steel Society.

At the exhibition opening, Ms Grace Fu, Minister of State for National Development, highlighted BCA's initiatives under its Sustainable Construction Master Plan. These included facilitating the switch to alternative materials; reviewing of regulatory requirements for greater adoption of sustainable construction; working with relevant public agencies to take the lead in showcasing sustainable construction for projects, and educating the public and industry on the importance and benefits of sustainable construction.



Ms Grace Fu, Minister of State for National Development, urged all industry stakeholders to make a concerted effort to adopt sustainable construction in their building projects.



The presidents of the Construction Industry Joint Committee showed their support for sustainable construction at the exhibition opening.

A video featured at the event demonstrated industry stakeholders' strong support for sustainable construction. To commemorate the event, BCA also launched a coffee-table book which highlighted the successful use of various sustainable materials for buildings in local and overseas projects.

The Exhibition featured the creativity and flexibility of steel as a construction material. It also showcased the use of recycled materials such as copper slag and incinerator waste in various applications and the use of high-quality dry walls in residential developments.



Model of a steel lift shaft under HDB's Lift Upgrading Programme

Samples of recycled materials and products



Exhibit of a drywall and its cross-section, demonstrating that items like plasma TVs can be hung on drywalls.



BCA went an extra mile to provide guided tours to visitors who wanted to know more about Sustainable Construction. More than 670 visitors from Singapore Science Centre, Singapore Sports Council, National Parks Board, CPG Consultants Pte Ltd, Health Sciences Authority, Ministry of Health, Federal Insurance Company, Singapore Polytechnic, Ngee Ann Polytechnic and Republic Polytechnic were guided through the exhibition.



“This exhibition has given me a greater insight as to what Singapore has in store in future for the building industry. And that sustainable resources are indeed the way to go in the long run in order for Singapore’s building industry to remain competitive.”

Vanga s/o Ganasan
2nd year student, Diploma in Civil and Structural Engineering
Singapore Polytechnic

“We would like to express our appreciation to BCA for showing us around the Sustainable Construction exhibition. BCA’s presentation was most informative and interesting and has provided us with a much better appreciation of the importance and long-term benefits of sustainable construction in Singapore.”

Jude Cross
Property & Casualty Risk Engineer
Federal Insurance Company

“It has been a good learning experience for myself and my colleagues in visiting the BCA exhibition. We have certainly found it very informative and we greatly appreciate the time that BCA has taken in bringing us on a personal guided tour.”

Lim Meng Mee
Assistant Director (Admin)
Ministry of Health

During the 3-week exhibition, BCA organised a series of seminars and conferences on topics relating to Sustainable Construction. More than 740 industry practitioners attended these events which include:

- Special Talk by two prominent experts – Professor Roger Plank from the University of Sheffield and Professor Richard Liew from National University of Singapore on 23 April 2007
- Presentation on the use of drywall during the BCA-SIA Quality Seminar on 24 April 2007
- Half-day seminar “Sustainable Solutions Using Steel” on 2 May 2007
- One-day International Conference on Sustainable Construction on 10 May 2007



Professor Roger Plank from University of Sheffield spoke on sustainable construction issues on 23 April.



Mr Yusuke Yamazaki, Deputy Director of Institute of Technology, Shimizu Corporation, Japan discussed the trend of Sustainable Construction in Japan on 10 May.

Better Customer Satisfaction, More Savings for Quality Mark Projects

Quality Mark projects generally have fewer defects and better customer satisfaction compared to non-Quality Mark projects. A recent BCA study on 11 projects revealed that the scheme had helped to reduce the number of defects per unit by 40 percent.

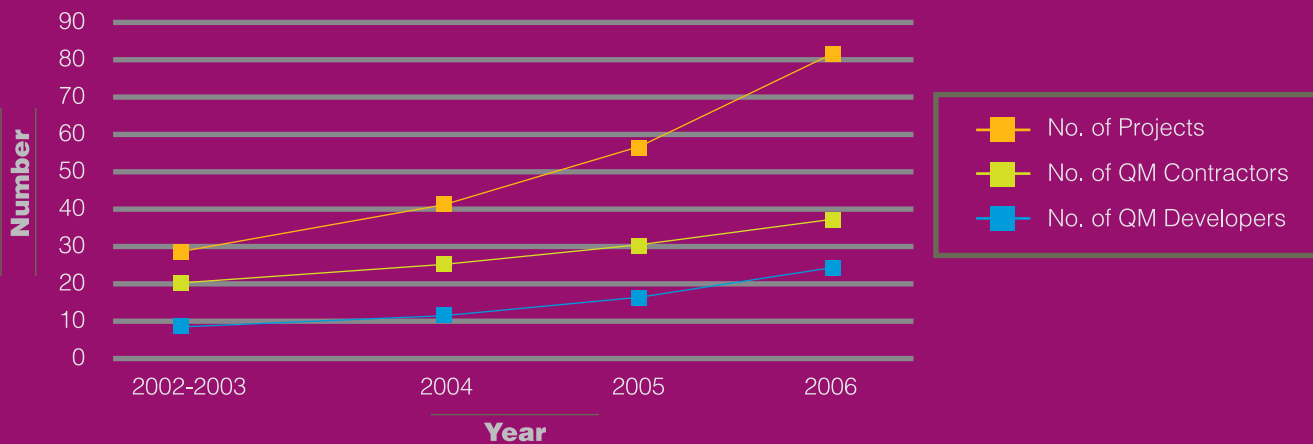
The same study also showed that this reduction in defects would potentially lead to manpower cost savings for builders with prior Quality Mark experience during the defects liability period.

Description	Experienced Quality Mark Builders	First-Time Quality Mark Builders
Manpower for Quality Mark preparation	Additional 4.9%	
Manpower savings during defects liability period	6.1%	3.2%
Net savings in manpower	1.2%	-1.7%
Cost savings out of total contract sum	0.17%	-0.29%

The additional cost for first-time Quality Mark builders could be attributed to the lower quality performance achieved compared to experienced Quality Mark builders. A builder's experience in Quality Mark generally led to better performance, resulting in fewer complaints and higher manpower cost savings during the defects liability period.

Since the scheme began in July 2002, BCA has steadily built up a substantial pool of Quality Mark builders, paving the way for the industry to deliver residential homes of consistently high quality to meet the rising expectation of homeowners.

Cumulative No. of Quality Mark Developers, Builders & Projects



The scheme helps to surface major defects within the units and leakages detected in the bathrooms and toilets during the water ponding test. Statistics revealed that 5 percent and 6 percent of the 10,000 units assessed to date were found with major defects and leakages respectively. With the Quality Mark Scheme, these problems were detected and rectified before the units were handed over to homeowners, thus reducing subsequent complaints from and inconvenience to homeowners.



5% of units assessed were found with major defects, which were rectified before handing over to homeowners.

Examples of major defects:

- Missing, damaged or cracked architectural items
- Functionally deficient doors, windows and any other movable architectural parts.

6% of units assessed were found with leakages during the water ponding test. These were rectified before handing over to homeowners.



Enhancing Safety Barriers

Adequate barriers such as parapets and railings can prevent people falling from heights. BCA recently reviewed and amended its Acceptable Solutions in the Approved Document. This review was part of BCA's efforts to respond to feedback from house owners and the industry and to ensure that requirements were aligned with international standards.

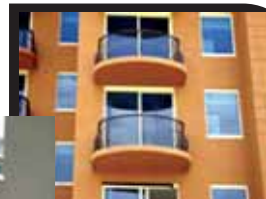
Before the review, Section H of Acceptable Solutions – “Safety from Falling”, stated that a barrier should be provided to prevent people from falling from a height of more than 1 metre. The barrier must also be designed to withstand a horizontal load as prescribed in BS 6399: Part 1 - Loadings for buildings. Parapets could be in the form of reinforced concrete, bricks or glass panels, while railings could comprise steel sections, aluminium sections, glass panels and other types of building materials.



Glass parapets



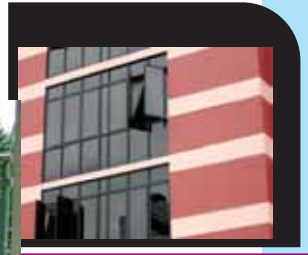
RC parapets



Aluminium railings



Steel railings with aluminium perforated panels



Full height glass panels

After the review, the acceptable solutions for barriers had been amended in Clauses H.3.2 and H.3.4. Under Clause H.3.2, the height of barrier was increased from 900 mm to 1,000 mm. Clause H.3.4 was also amended to require the provision of a solid construction of 75 mm in height at the bottom of the barrier at the edge of the building, and to eliminate any toeholds between the height of 150 mm and 750 mm in the barrier which could encourage children to climb on it.

The new edition of Section H can be found at BCA website www.bca.gov.sg. In addition, a separate submission for structural plan approval is now required for the structural design and details of all barriers, including fixings to confirm compliance with Clause H.3.3. For glass barriers, the design must also comply with Section 8 of BS 6180:1999 Barrier In and About Buildings- Code of Practice.

For questions relating to Clauses H.3.2 and H.3.4, please contact Mr Yap Guan Hwa at 6325-8641 or Mr Anson Seah at 6325-8643. For questions relating to Clause H.3.3, please contact Ms Tay Ah Ching at 6325-7570.

INTERNATIONAL PANEL OF EXPERTS

The formation of the International Panel of Experts seeks to enhance safety standards in the built environment in BCA's mission to continually review and maintain a robust building control framework on safety.

The International Panel of Experts has been formed to assist BCA in reviewing the building control framework in an objective and systematic manner. This is an opportunity for BCA to tap on the experiences of pre-eminent experts on building regulatory systems relating to safety of buildings and to benchmark local practices with the best from around the world.

The Panel is co-chaired by BCA's Chief Executive Officer, Dr John Keung, and BCA's Board Member, Er Lee Chuan Seng, and will comprise four international experts. These experts were selected on the merits of their experience, achievements and specialised knowledge in regulatory control systems and engineering practices. They were also selected from various developed countries to build up a panel who can share diverse experiences and new perspectives on building control practices.

The areas to be reviewed by the Panel will include regulations on structural design and construction works, the accredited checking system and periodic structural inspections of completed buildings.

In addition to the formation of the Panel, BCA will continue to gather feedback from the industry through regular dialogue sessions with professional bodies and associations, such as Institution of Engineers Singapore, Association of Consulting Engineers Singapore, Singapore Contractors Association Limited and Singapore Institute of Architects. Through effective partnership with industry stakeholders and objective feedback from international experts, BCA will strive to fine-tune and improve the building control framework to ensure a safe built environment.

International experts on the panel



1. Dr Alastair J M Soane

*Deputy Chairman
UK Building Regulations
Advisory Committee*

*Director
CROSS (Confidential Reporting
on Structural Safety)*

*Visiting Professor
Department of Civil Engineering
University of Liverpool*



2. Dr Brian J. Meacham

*Principal and Head
ARUP Risk Consulting*

*Chair
Risk & Security Advisory
Committee
New York City Department of
Buildings*



3. Mr Barry Brown

*Director
Thomas Fraser.*

*Ex-Chairman
NZ Building Industry Authority*

*Awarded the IPENZ MacLean
Citation 2005 for his contribution
to improved building regulation
in New Zealand*



4. Dr Alfred Yee

*President
Applied Technology Corporation
Honolulu, Hawaii.*

*Served as Honorary Structural
Consultant to HDB for seven
consecutive three-year terms as
a specialist in pre-cast concrete
technology*

Slope Stability for a Safe Built Environment



The exceptional and excessive heavy rainfall in end 2006 and early this year had weakened the soil strength of slope in some areas, triggering several landslides and earth retaining wall collapses at landed property areas. These incidents had caused damages to private landed houses at Jalan Dermawan, Westlake Avenue, Jalan Girang, Chu Yen Street and Chu Lin Road.

Notwithstanding the continuous heavy downpour, BCA's engineers assessed the impact of landslides and damages to the affected houses. As an immediate precautionary measure, BCA served closure orders to evacuate the residents of affected houses that were unsafe for occupation. To stabilise the affected slopes from further movement, BCA facilitated the quick installation of protection measures such as covering the failed slope with canvas, diversion of water runoffs away from slope and providing lateral restraint with earth berm or struts.

These recent incidents serve as a reminder that slope stability is critical for preventing landslides and sustaining a safe built environment. Under the Building Control Act, slopes forming part of a property are required to be stabilised by regrading of slopes and designing and constructing earth protection structures such as earth retaining wall, soil nails, tie-back walls, contiguous bored-pile walls, among others.

Land and property owners play an important role in slope stability to ensure safety.

BCA constantly reminds:

- professional engineers to inspect the slope protection structures during mandatory periodic structural inspections and pay attention to visible defects, surface cracks, choking of weep holes and subsoil drains.
- land-owning government agencies to engage specialist geotechnical consultants to conduct risk assessment, and where necessary, carry out instrumentation monitoring for their slopes with landslide histories.
- owners of private landed properties to engage professional engineers to inspect and maintain their slopes and slope protection structures periodically.
- the public on proper maintenance of slope stability through public education such as seminars, media releases etc.

protective measures for affected slopes and houses



Some major overseas construction projects



Safeer Mix Mall & Hotel Development in Fujairah, UAE, by Koon Seng Construction Pte Ltd



Assembly Plant at Lot 5014, Mukim Serendah, Daerah Hulu Selangor, Malaysia, by Kim Seng Heng Engineering Construction (Pte) Ltd



The Lagoon Retail Development at Amwaj Islands, Bahrain, by BPL Engineering & Construction Pte Ltd

For 3 years running Construction Exports Above \$2 Billion

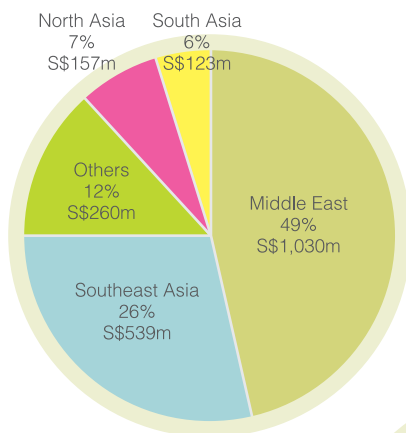
The verdict is out! BCA's latest Exports Survey has shown that Singapore construction and engineering firms clinched a total of \$2.1 billion worth of overseas construction contracts in 2006. This was the third consecutive year that construction exports had exceeded the \$2 billion mark.

Reflecting its vast opportunities for infrastructure and environmental developments, Middle East emerged as the leading market for Singapore construction exports in 2006. Southeast Asia still remained an important market, accounting for about one-fourth of the total

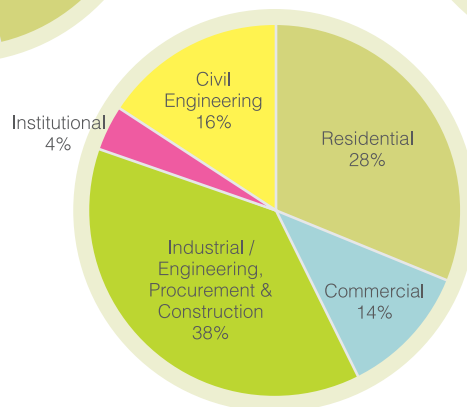
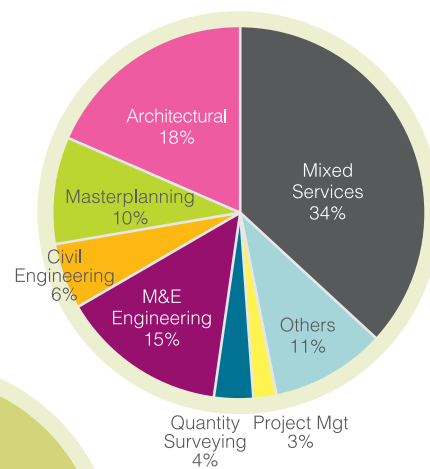
construction export volume. Other major markets included China and India.

Singapore consultancy firms also turned in an impressive performance by securing about 360 overseas consultancy projects in 28 countries in 2006. Besides the traditional Southeast Asia market, Singapore consultants were also gaining more business opportunities in India, China and the Middle East. About half of these projects' consultancy fees were below \$150,000 and a quarter between \$150,000 and \$500,000.

Performance of Key Markets, 2006



Types of Overseas Consultancy Projects, 2006



Overseas Construction Exports by Development Type, 2006

CAREER2007

Jobs and courses available to join the robust building industry

The four-day Career 2007 exhibition in March 2007 provided another opportunity for BCA to create positive branding for the building industry. At the event held at Suntec City, BCA collaborated with the National University of Singapore and Singapore Polytechnic to occupy a 60-square-metre booth to raise public awareness of career opportunities in the industry.

The job scope and personal qualities of the various building professions – architects, engineers, project managers and quantity surveyors – were showcased at the booth. Visitors comprising secondary, junior college and polytechnic students, undergraduates and mid-career entrants also learnt about BCA's mission to shape a safe, high quality, sustainable and friendly built environment.



BCA's Booth at the fair showcased information on rewarding careers that contribute to a safe, high quality, sustainable and friendly built environment.

The BCA Academy of the Built Environment was also present at the booth to promote building-related courses for visitors interested in upgrading or furthering their education. These included full-time diploma courses, managerial and technical

courses and tradesmen courses. BCA also conducted a career seminar to further engage interested parties who were interested in careers in the robust and dynamic building industry.

Visitors to the fair showed interest in the courses offered by the BCA Academy.



This time, Career 2007 offered more than 20,000 jobs in different sectors of Singapore's growing economy and some 50,000 places in educational courses. Launched by the Minister of State for Education and Manpower, Mr Gan Kim Yong, the exhibition's opening ceremony was also graced

by Mr Ow Chin Cheong, Executive Director of Singapore Institute of Architects, Mr Andrew Khng, First Vice-President of Singapore Contractors Association, and Mr Tan Kian Huay, First Vice-President of Society of Project Managers.

Coming up in 2008!

Career 2008 has already been scheduled to take place from 28 February to 2 March 2008. For the event, BCA plans to collaborate further with industry players and educational institutions for direct recruitment, promotion of building related courses and promotion of careers in the design and the built environment. If you are an industry player interested to join hands with BCA in Career 2008, please contact Eunice Siow at 6325 5027 or eunice_siow@bca.gov.sg.

Building Careers

Making an impact on youths about the exciting career prospects in the building industry.

Play a part in new residential and commercial developments at the new business financial district. Or at one of the two integrated resorts at Marina Bay and Sentosa island.

A career in the building industry can be viable and sensible when one considers the vast job opportunities. That was why BCA created a series of advertisements to raise awareness and create positive image for the building industry among students, school leavers and graduating students. The objective was to encourage them to take up courses or consider careers in the building industry.

You might have seen the advertisements in the earlier issue of our Pillars magazine. These advertisements were featured in TODAY and THE NEW PAPER in February 2007. They are also splashed over 10 SMRT buses, 300 MRT windows and door panels in over 50 trains until the end of May 2007.

For more details on building careers, please log on to <http://www.bca.gov.sg/buildingcareers> or e-mail <eunice_siow@bca.gov.sg>



upcoming events

Date	Event	Contact
6 Jun 07 - 20 Oct 07	Certificate in Levelling & Setting Out	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg
18, 19, 20, 25, 26, 27 Jun & 10 Jul 07	The Singapore Certified Energy Manager (SCEM) Programme - Energy Audit and Measurement (Professional Level)	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg
25 Jun 07	Seminar on Leading Lights in the Realm of Sustainability	Xanna Tan DID: 62489824/843 Email: xanna_tan@bca.gov.sg
27 Jun 07	CONQUAS 21 Training (for Developer)	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg
5 Jul 07 12 Jul 07 19 Jul 07	Good Industry Practices - Waterproofing for External Wet Areas Good Industry Practices - Marble/Granite/Ceramic Tiling Good Industry Practices - Timber Flooring	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg
9 Jul 07 - 30 Jun 2010	Part-Time Diploma in Construction Engineering	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg
18, 19 & 20 Jul 07	Certified QM/Conquas Manager Course	Huang Xiao Man DID: 62489843/824 Email: huang_xiaoman@bca.gov.sg

Contest

- 1. What is the website address for BCA's new Green Mark Info-portal?**
- 2. When was the sustainable construction exhibition held at URA Centre?**
- 3. How much has been set aside for the Accessibility Fund to support retrofitting of basic accessibility features for existing privately-owned commercial and institutional buildings?**

Send in your answers by 30 Jun 2007 to Editor Pillars, Building and Construction Authority, 5 Maxwell Road, #16-00, Tower Block MND Complex, Singapore 069110. Or e-mail: bca_enquiry@bca.gov.sg or fax to 63254800. Please indicate your name, designation, company, phone number and address. Selected entries will stand to win attractive shopping vouchers.

Contact Us

General Enquiries

Tel: 6325 7720

Advertisement Licensing

Tel: 6325 7379

Building Management

Tel: 6325 7383

Construction Activity Feedback

Tel: 1800 DIAL-BCA

Household Shelter

Tel: 6325 7106

Plan Approval, TOP, CSC

Tel: 6325 2211

Plan Search

Tel: 6325 8663

Courses and Tests

Tel: 6248 9843 (Training)

Tel: 6248 9868 (Testing)

CONQUAS / BCA Quality Mark

Tel: 6325 5077

BCA Green Mark

Tel: 6325 5900

ISO Certification

Tel: 6325 5079

Contractors Registry

Tel: 1800-2212242

CORENET

Tel: 6325 5003 (e-info)

Tel: 6325 5004 (e-submission)

Incentive Schemes

Tel: 6325 5068 (IAS)