



Hong Kong and the HKGBC

Green Cities 2010: The Green World Cup

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Melbourne Convention Exhibition Centre



The Hong Kong Green Building Council

About the HKGBC

- Inaugurated November 2009
- Not-for-profit company limited by guarantee
- HKGBC is a registered charity


Founding Members

- Construction Industry Council (CIC)
- Business Environment Council (BEC)
- BEAM Society (BEAM)
- Professional Green Building Council (PGBC)


HKGBC Membership

- *Institutional Members* – corporates, industry associations and institutions, educational establishments across the real estate and construction sectors (HK\$3,800/year)
- *Associate Members* – Gov't departments, overseas orgs, individuals, students (HK\$1,000/year, free student membership)





Hong Kong & the Pearl River Delta Region



Source: Geocarto International Centre

~70% HK's land area is designated as protected country parks

Built up area contained within 25% total land area

Compact city, first class infrastructure

Extensive / affordable public transport

Sustainability / Built Environment Challenges in Hong Kong:


- Energy supply
- Climate change
- Water availability
- Waste and recycling
- Urban environmental quality


HKSAR Stats:

Population 7.0M in 2009 (4.3M in 1983)

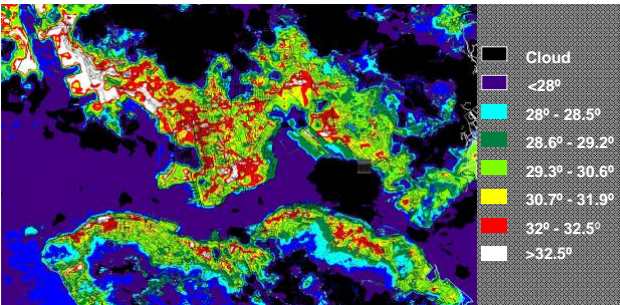
Land area 1,024 km²

Built-up area 25% in 2009 (16.2% in '83)





Hong Kong's Built Environment



Source: Janet Nichol, Department of Land Surveying & Geoinformatics, HK Polytechnic University, 2007





Urban permeability (canyon affect, roadside pollution, UHI)


Availability / access to public space and greenery


Maximum GFA, at the expense of environmental design

The podium effect

Complex multi-ownership of buildings






The BEAM Plus Green Building Label

“Whole-Life” Approach

Planning
Design
Construction
Commissioning
Completion
Operation
Maintenance
Management



Site

Energy

IEQ


Materials

Water

Over 400 premises, new & existing, covering almost 100,000,000 ft²

- private/public housing, student / Gov't qtrs, training centres (170+ blocks, >50,000 units)
- commercial office & retail (private & gov't owned), corporate HQ
- gov't offices & HQ, uniformed services facilities, law courts
- university, community college, school
- public health facilities, radiotherapy and rehab complexes

- Initiated by BEC / REDA in 1996, owned by the non-profit BEAM Society
- Industry-wide BEAM ExCo: BSOMES, BEC, CIC, CII-HK, HKAPMC, HKCA, HKFEMC, IFMA-HK, PGBC (HKIA, HKIE, HKILA, HKIS, HKIP), REDA
- ~75% of assessments adopted by new buildings (design / construction); 25% by existing buildings (operation, maintenance, management)





HKGBC's Focus – the first year

Engagement with Government and Industry

- Hong Kong's contribution to mainland China's carbon reduction commitments
- Accelerating energy efficiency in Hong Kong's existing buildings
- Encouraging green building rating across public / private sector clients
- Rejuvenation of old industrial buildings
- Preparation for the C40 Cities Conference (HK, November 2010)

Continued development of BEAM Plus

- Expanded accreditation of BEAM Plus Practitioners and Assessors
- Tailored rating systems for different development types (domestic, districts, etc)
- Refined benchmarking of existing building performance
- Communication of achievements / benefits



Source: HKSARG Architectural Services Department, Wong Tai Sin Zero Carbon Park





Thank You !!

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