Singapore Green Policies and Experiences

A.C.S Jayapaul Senior Country Director (Middle East) Building and Construction Authority Singapore

on behalf of

Choo Whatt Bin Executive Director Building and Construction Authority

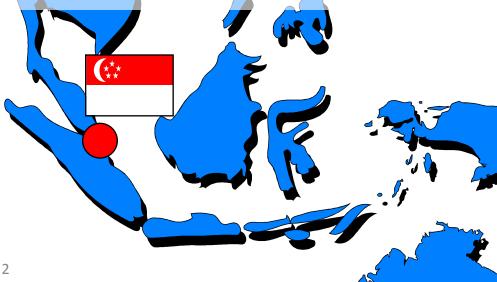
Building and Construction

Sustainable Development in Singapore

Land Area : 712 km² Population : 5.1 million

- City-State with no hinterland
- Accommodate housing, IFC, Ports and Ind. Base, Refineries, Power Plants......

KEY: SUSTAIN ECONOMY AND ENVIRONMENT









A Sustainable Built Environment for All

Live in a Green Home









Study in a Green School



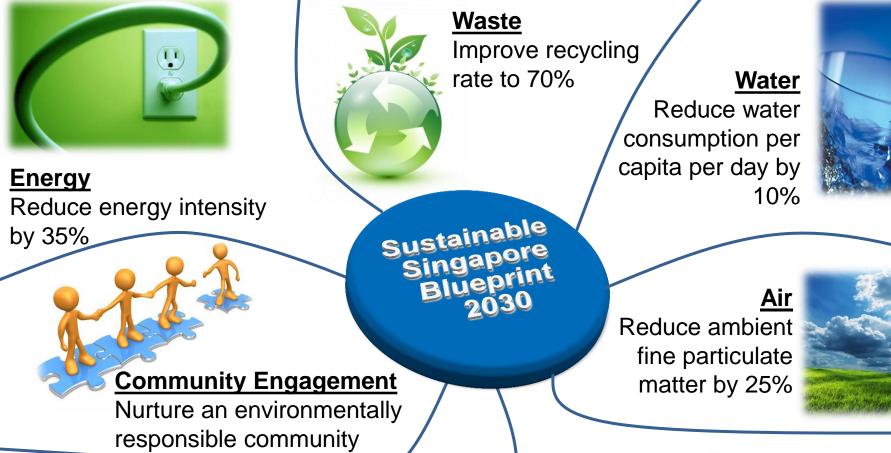
Shop in a Green Mall

NATIONAL SUSTAINABILITY INITIATIVE

Inter Ministerial Committee for Sustainable Development

- Formed in 2008
- Chair : MND and MEWR
- Members: MFA, MTI and MOT

Task : Blue Print for Singapore's Sustainability Journey





Capability Building

Build Singapore into an environmental knowledge hub

Physical Environment Increase reservoirs, parks, waterways, skyrise greenery



Current Status vs Future Goal

12% → 80% (2011) (2030)

The Singapore Approach

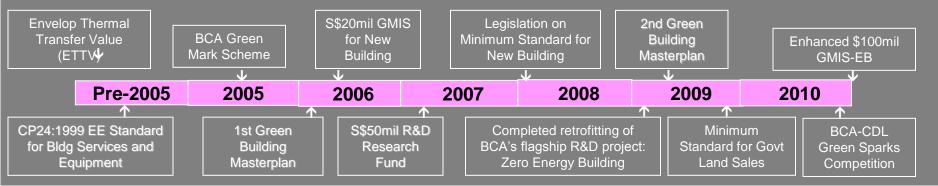


Mark	Again	Certified	Gold		Gold		Flatinum	
Score	0 49	50 74	75	84	85	89	90	100
Estimated E	Energy Savings	ر میں میں میں 10% to 15%	15% to 25		> 25%		> 3(0%

BCA-NParks Green Mark for Parks BCA Green Mark for Districts





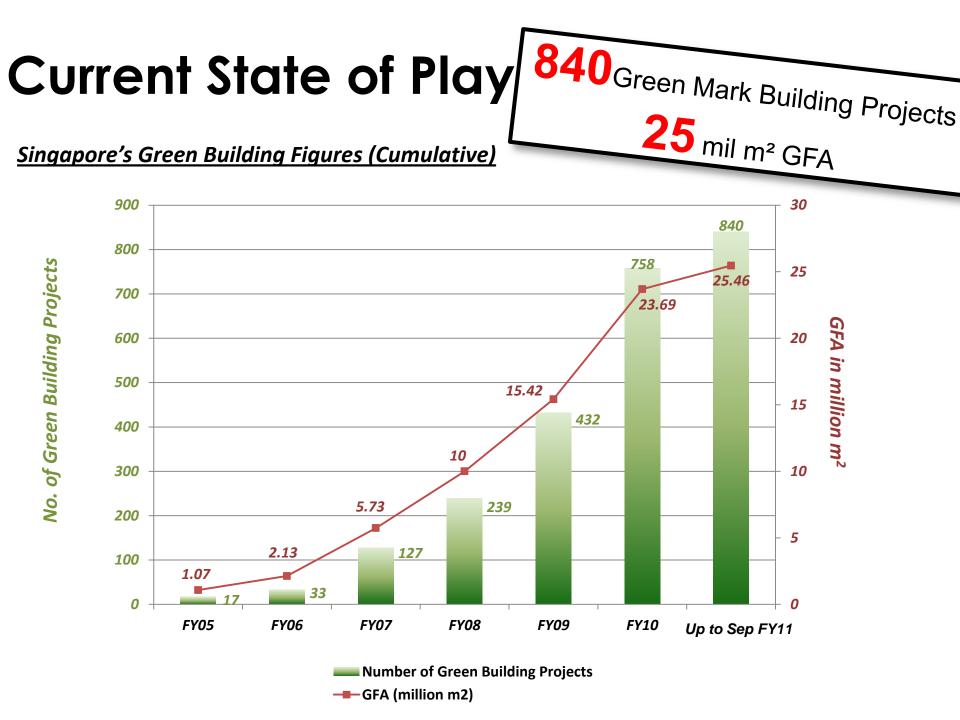




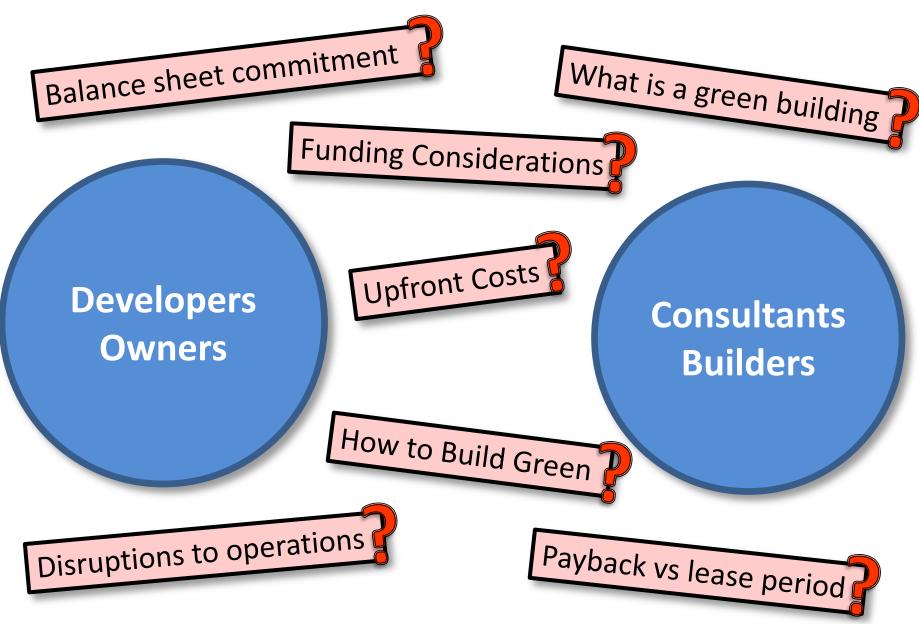
BCA Green Mark for Infrastructure



BCA Green Mark for Rapid Transit System



Inertia to Green Buildings



Government Taking the Lead



New larger public buildings to achieve GM Platinum

Existing larger public buildings to achieve GM Gold^{PLUS} by 2020

Imposing Minimum Standards on Environmental Sustainability April 2008. All <u>New</u> Buildings and <u>Existing</u> Buildings undergoing major retrofitting works (with GFA ≥ 2000 m²) to meet at least Green Mark Certified Standard



GOVERNMENT INCENTIVES	Green Mark Gross Floor Are Incentive Scheme	S\$50 mil Research Fund For Built Environment	S\$5 mil for Design Prototype	S\$20 mil for New Buildings	
Incentive for Existing Building		BCA Green Mark Award Type	Green Cost Premium (%)	Payback Period (years)	
Retrofits		Platinum	2% to 8%	2yrs to 8yrs	
Relivints		Gold Plus	1% to 3%	2yrs to бyrs	
		Gold	1% to 2%	2yrs to 6yrs	

Strengthening the Business Case



Call for banks to give loans for 'green' buildings



BUSINESSES keen to go green may soon receive a boost from financial institutions.

Banks could give out loans for buildings that are designed with the environment in mind, as part of

their social corporate responsibility.

This is one of the recommendations from an international panel of experts on boosting sustainable buildings in Singapore.

There are currently more than 130 Green Mark buildings here.

Another 200 are still waiting to be recognised by the Building and Construction Authority as being more sustainable and energy efficient.

The New Paper, 3 Oct 2008

Building Retrofit Energy Efficiency Financing (BREEF) Scheme

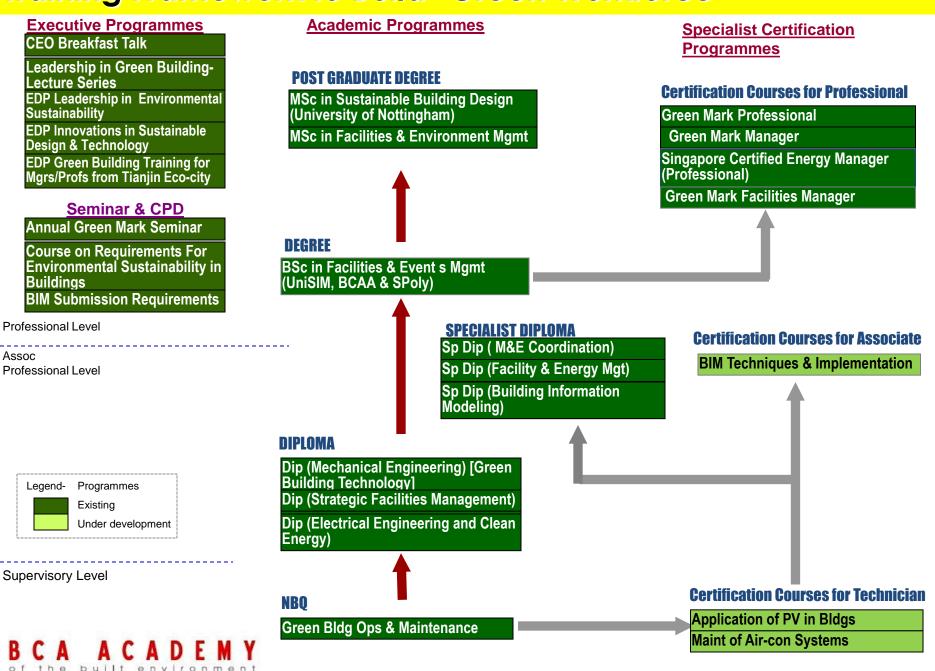
financial institutions to provide loans to building owners and energy services companies for building energy retrofits

Unleashing the value proposition of green buildings



"BUILD GREEN, FROM COST TO VALUE" A Collaboration – BCA, NUS, Leading Valuation Firms

Training Framework to Build `Green Workforce'



Spreading the Green Message



Reaching out to the Region



Thank You

paul_acs@bca.gov.sg

