



BEAM Society Limited

BEAM Pro Training and Examination

Introduction, Building Certification Procedure and Innovation

Ir C F Leung

BEAM Pro, Green Building Faculty

R.P.E.(Env), MHKIE, CEng, CEnv, MCIWEM, MHKIOA, MHKAEE, CAP

Head of Building & Energy Efficiency and IAQ Solutions Centre

Business Environment Council

23 July 2014

What is BEAM?

BEAM =
**Building Environmental
Assessment Method**

**A renowned green building labelling tool in
HK to evaluate the environmental
performance of buildings**

BEAM Evolution

- First standards launched in 1996
- Revised in 1999, 2003, 2005, 2009 **and 2012** with widespread technical input from Hong Kong professionals (advisory panels, peer review, weighting surveys)



BEAM Plus

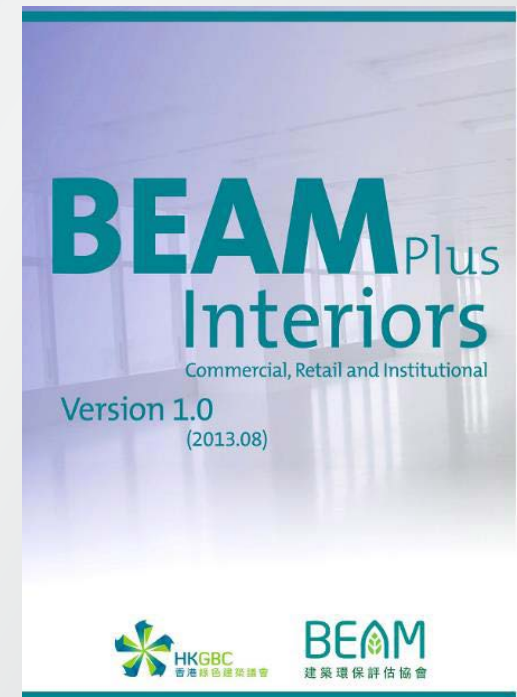
BEAM Plus is the 5th generation of BEAM

- **First Launched:**
Nov 2009
- **Commencement:**
Apr 2010
- **Official registration for project assessment:**
Aug 2010
- **Launch of Version 1.2:**
July 2012
- **Mandatory Use of Version 1.2**
Jan 1 2013



BEAM Plus Interiors

- Benchmarking sustainability in the fit-out, renovation and refurbishment of non-domestic, occupied interior spaces.
- First initiated in 1996, BEAM Plus is one of the most widely used voluntary green building certification schemes in the world.
- The BSL commissioned the creation of BEAM Plus Interiors in 2012



Hong Kong Green Building Council (HKGBC)

In 2009, four industry leaders united to establish the HKGBC



Hong Kong Green Building Council (HKGBC)

<http://www.hkgbc.org.hk>

HKGBC devotes its energies to initiating the market transformation to green building

- **Green Building Certification and Promulgation**
- **Influencing & Advising on the Drive for Green Building Growth**
- **Leading the Community to Adopt Green Building Practices**
- **Protecting the Environment in an Urban Context**
- **Reducing Carbon Emissions**

BEAM Society Limited

<http://www.beamsociety.org.hk>

BEAM Society Limited is a non-profit organization which is committed to promote, and develop the BEAM assessment tools, assessing green buildings and training professionals.

The mission of the BEAM Society is to:

- Improve the environmental performance of buildings across their life cycle;
- Provide healthier, higher quality, more durable and efficient working and living environments for building occupants;
- Contribute significantly towards sustainable development in Hong Kong;
- Build capacity in the industry to move quickly towards;
- Educate the Hong Kong community to the concepts of eco-efficiency and sustainability;
- Extend these sound practices beyond Hong Kong, and into the Asia Pacific region.

BEAM Professionals (BEAM Pro) 綠建專才

- The key roles of **BEAM** Pro are to **integrate** the green building standards and practices into everyday building planning, design, construction & operation, and to assist the clients to achieve the desired **green building rating level**.
- BEAM Society Limited organizes BEAM Pro Trainings.

BEAM Affiliate (BA) 綠建通才

A **BEAM Affiliate** is a person accredited by the Hong Kong Green Building Council (HKGBC) as being competent to support green building design, construction and operations.

In a typical project setting, BEAM Affiliates work under a BEAM Pro to support the green building certification process.

BEAM Assessors

- **2 groups of BEAM Assessors**

Initial Group of Expert BEAM Assessors

Recurring Group of BEAM Assessors

Initial Group of Expert
BEAM Assessors

10

Recurring Group of
BEAM Assessors

about **30**

- **Ready to support the BEAM Plus project assessment**

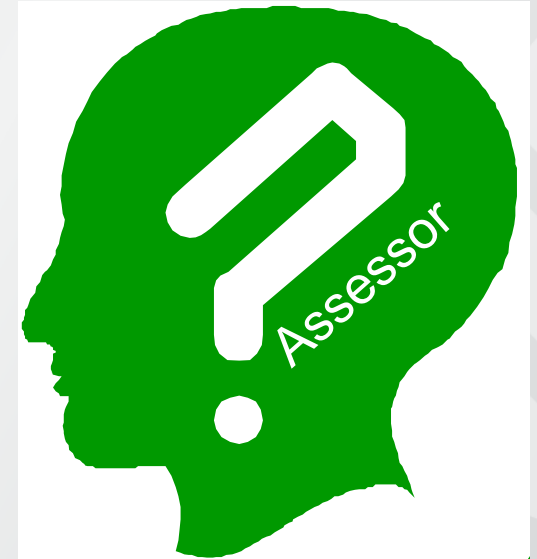
Recurring Group of BEAM Assessors

- Academic **qualification** meeting the requirement of BEAM Professional (**BEAM Pro**); AND
- **Minimum ten (10) years relevant post-graduate working experience** in the building sector; AND
- Sufficient technical involvement in previous BEAM / BEAM Plus certification projects, completing **at least one (1) BEAM / BEAM Plus Gold project** at point of application.

BEAM Assessors for Project Assessment

- Under BEAM Plus rating scheme, **BEAM Assessors are anonymous** to clients and applicants.
- BEAM Society will **assign respective BEAM Assessor** to undertake project assessments **based on the profile of the experts.**
- **could involve more than one BEAM Assessor for one project.**

Accredited



2010



- ~30 BEAM Assessors
- ~150+ Candidates per BEAM Pro Training Session
- ~3,200+ Candidates have been trained on BEAM Pro
- ~2,400+ Candidates have been accredited as BEAM Pro
- ~500+ Accredited BEAM Pro in the year of 2013
- ~530+ BEAM Plus projects registered

**More BEAM Plus NB, EB and
BEAM Plus Interiors Projects!**

7/2014

BEAM Plus NB

- BEAM Plus covers all building types
- New Building – New Buildings or Buildings involving major retrofitting works(50% rule)
- Examples – Revitalization of Industrial Buildings to Commercial Building or A&A works with majority of façade and building services equipment being upgraded or replaced.



BEAM Plus EB

- Existing Building – evaluate the performance of Existing Buildings (need 3 year maintenance records).



Updates

- BEAM Plus version 1.2 of New Buildings and Existing Buildings launched on 3 July 2012 covering Passive design and amendment to Version 1.1.
- BEAM Plus version 1.2 of New Buildings and Existing Buildings is mandatory from 1 January 2013.
- BEAM Plus Interiors is officially launched on 14 August 2013.

BEAM Plus Interiors - Application & Eligibility

BEAM Plus Interiors targets the most frequently encountered non-domestic interior fit-out projects in Hong Kong, namely:

- office premises;
- retail premises;
- restaurants;
- hotels, functional rooms & serviced apartments;
- educational facilities and libraries;
- institutional facilities including clinics, etc.



BEAM Plus Assessment Scope

“Whole-Life” Approach

- Planning
- Design
- Construction
- Commissioning
- Completion
- Operation
- Maintenance
- Management



- **Excludes** process related equipment and services associated with specialist design and operational requirements.
- e.g. IT server rooms; water meter cabinets; auditoria; swimming pools, cold rooms; car parks and loading bays.
- Applicant can exempt **certain discrete area less than 20m²** of the total assessed floor area.

Type of air conditioning applicable

Eligible Premises:

- Served by a central air-conditioning system
- Served by de-centralised equipment provided by landlord / tenants
- Naturally ventilated (i.e. with operable windows)
- Combination of the above

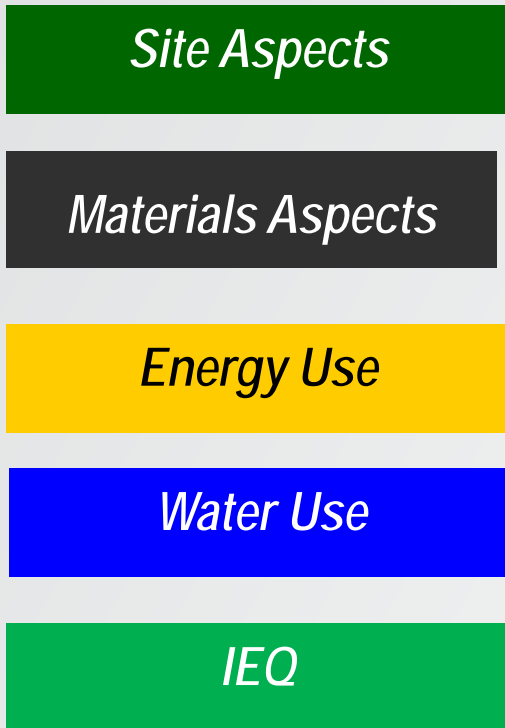
Some key areas interface with its surroundings:

- The overall sustainability attributes of the host building and its location.
- The control of nuisance to adjacent premises during the renovation works.
- The host buildings' envelope and types of building services.
- Potable water quality in the host building.
- Thermal comfort, visual comfort, aural comfort and indoor air quality aspects influenced by the host buildings' centralized systems.

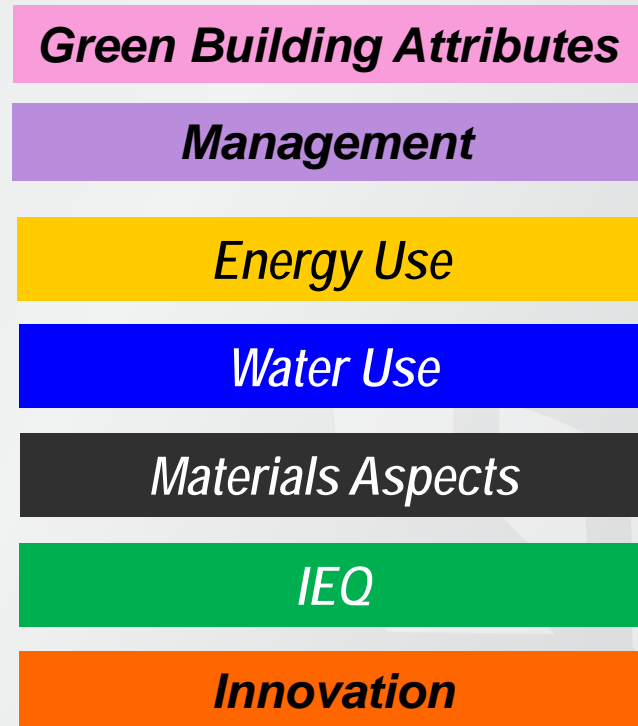
All others are confined to the footprint or boundary of the space being occupied or leased.

BEAM Plus Assessment Scope

For NB and EB



For Interiors

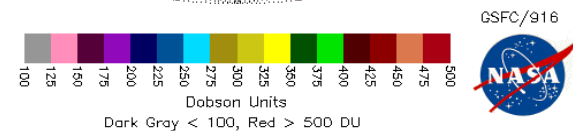
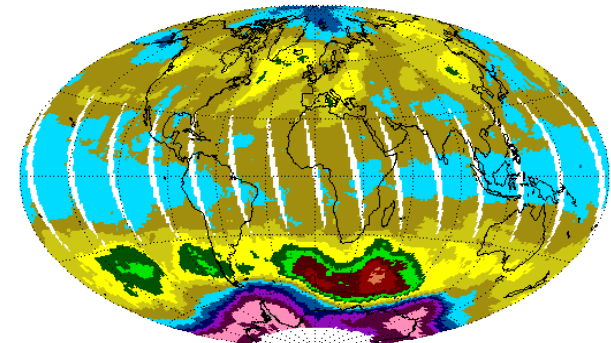


BEAM Plus Prerequisites

- **Minimum Landscaping Area (20%) (NB)**
- **Environmentally Purchasing Plan (EB)**
- **No Virgin forest products for temporary works (NB)**
- **No CFC-based refrigerants in HVAC&R systems**



EP/TOMS Total Ozone Sep 8, 2000



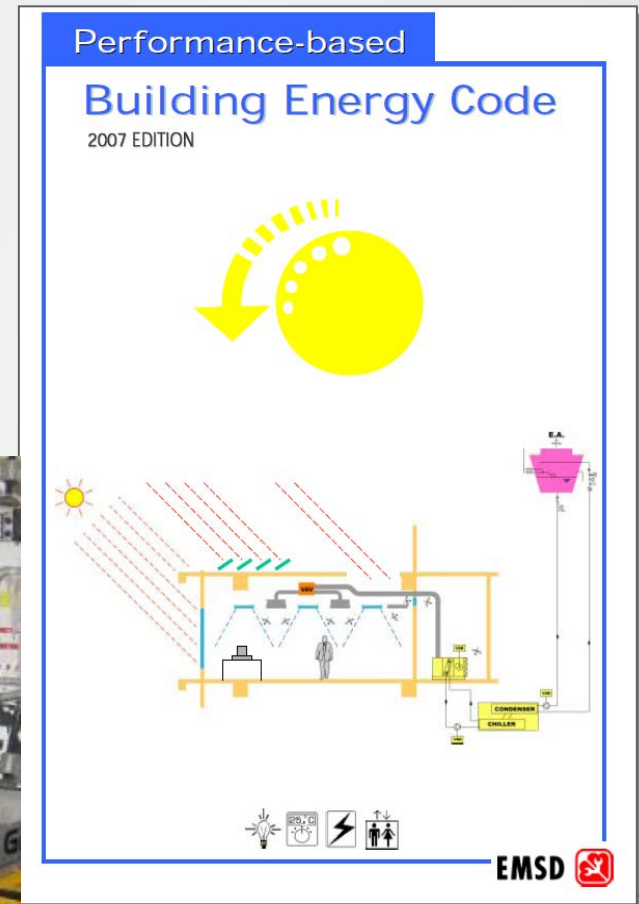
Ozone Depletion

BEAM Plus Prerequisites

- Implementation of construction waste management plan (NB)
- Provision of waste recycle facilities
- Compliance with Building Energy Codes (BEC)



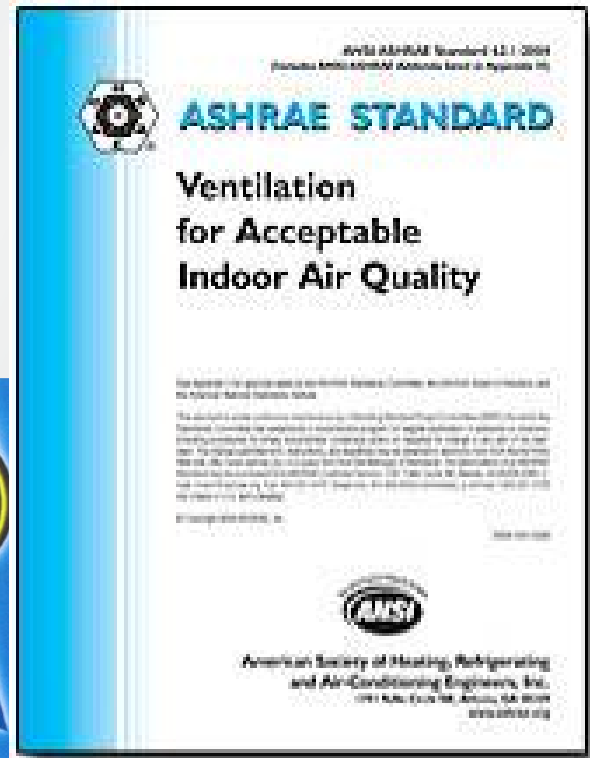
Recycle Bins



BEAM Plus Prerequisites

- Water quality (WSD)
- 10% annual water saving
- Water Conservation Plan (EB)
- Compliance with minimum ventilation requirement for acceptable air quality

(ASHRAE 62.1-2007)



BEAM Plus Interiors Prerequisites

MAN P1 - A Safety Management Plan has been implemented and updated during construction and fit-out activities.

MA P1 - Using no chlorofluorocarbon (CFC)-based refrigerants in HVAC&R or other equipment which is installed by the Applicant.

MA P2 – Provide storage facilities at prominent location for the collection and recycling of paper, plastic and metal waste.

MA P3 - All timber used for temporary works shall originate from sustainable sources or re-used from other sites.

Area Weighting

- Area weighting shall be applied to cater for a mixed building types of residential, clubhouse, retail, carpark).
- It shall be applied to **EU** and **IEQ** only. (EU1 and EU2 as total building energy has to be considered)
- Credits are weighted according to the Construction Floor Area or normally occupied floor area.
- **Under BEAM Plus version 1.1**, a building type with area less than 10% of total CFA of the complex premises will be **exempted**.
- **Under BEAM Plus Version 1.2**, above exemption will NOT be applied, for detail please refer to the Manual – Section 1.2 Assessable Area – Discrete Areas Excluded From Assessment.

Area Weighting Example

- **Residential Development** using **split type units** with a **Shopping Arcade** using **water-cooled chillers**?

CFA Ratio: **70%** vs **30%**

- **Commercial Building** using **centralised A/C system** with **Carpark** using mechanical ventilation?

CFA Ratio: **95%** vs **5%**

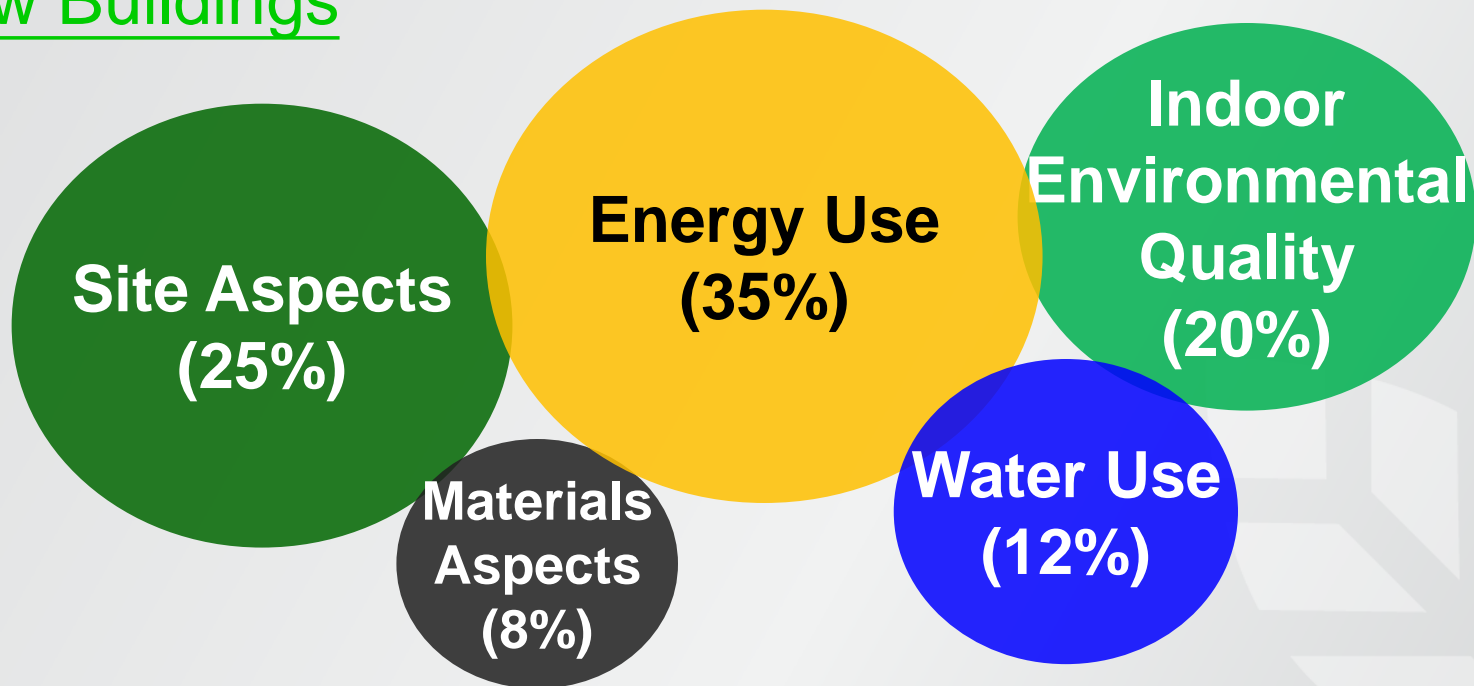
- Composite development with a **Hotel**, **Commercial tower**, **Shopping Arcade** and **Underground Carpark**?

CFA Ratio: **35%** vs **35%** vs **15%** vs **15%**

Category Weighting - NB

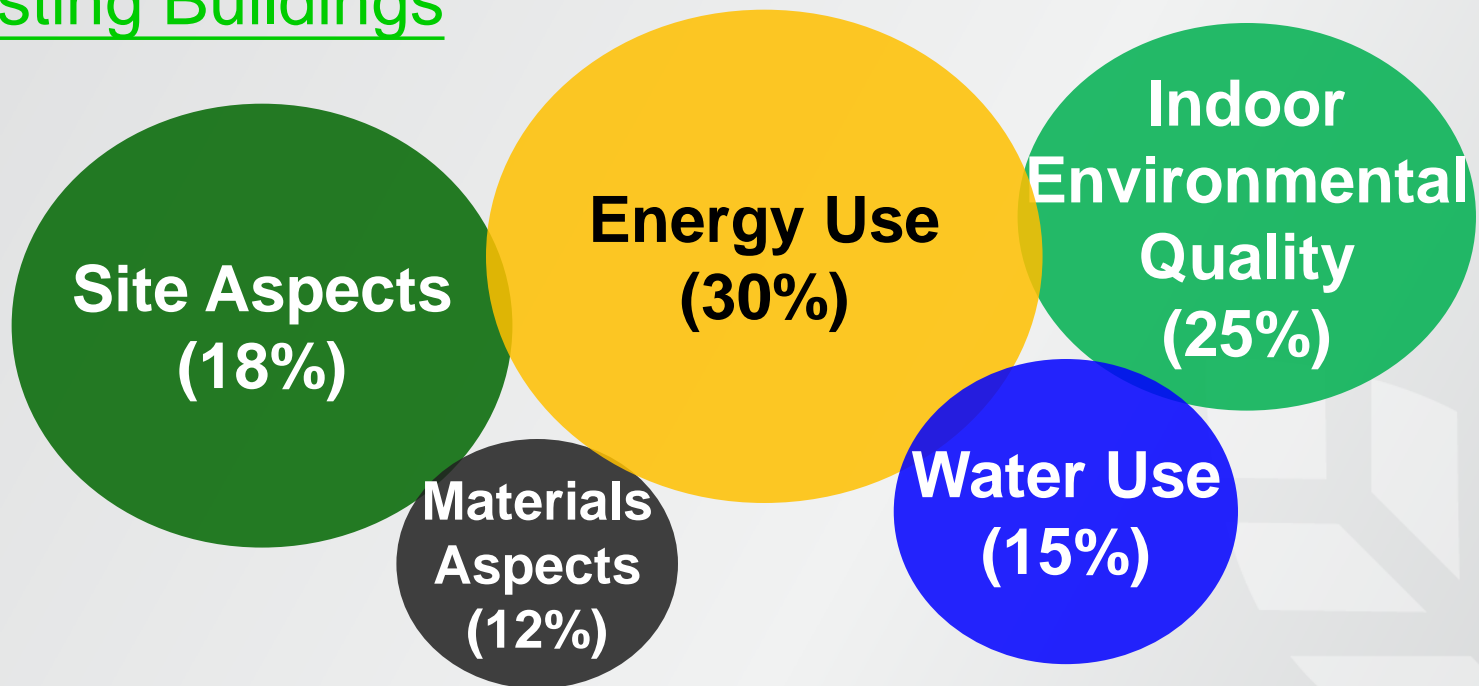
Category Weighting → Importance & Global Trends

New Buildings

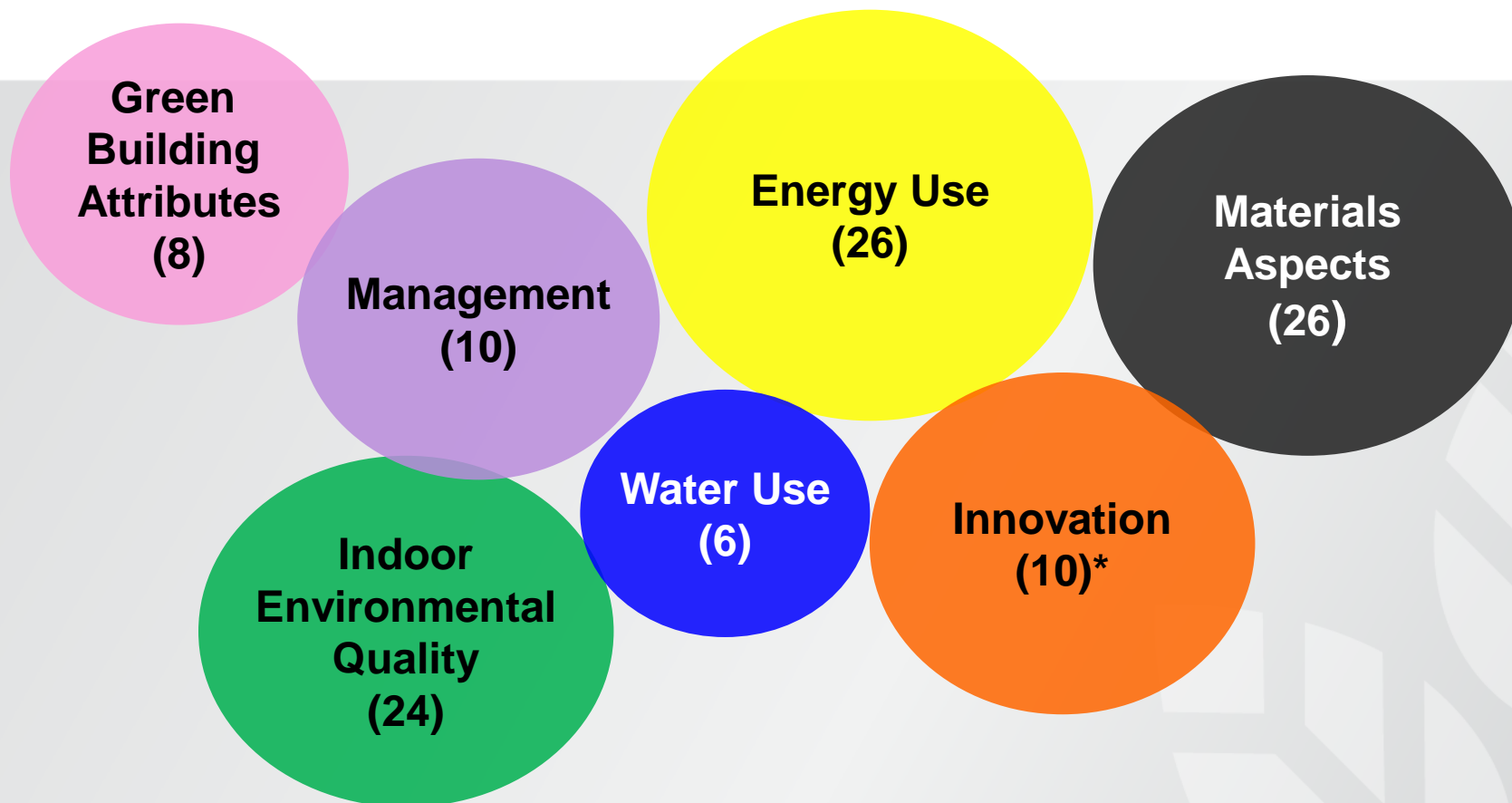


Category Weighting - EB

Existing Buildings



Category Weighting - Interiors



***Note:** Any points gained under the Innovation category shall be regarded as 'Innovation' counting towards the total number of points obtained but not towards the total points obtainable.

BEAM Plus Minimum Scoring

	Overall	Site	Energy	IEQ	IA (credit)
<i>PLATINUM</i>	75%	70%	70%	70%	3
<i>GOLD</i>	65%	60%	60%	60%	2
<i>SILVER</i>	55%	50%	50%	50%	1
<i>BRONZE</i>	40%	40%	40%	40%	-

BEAM Plus Interiors Minimum Credit Scoring

	Overall (100)	Materials (26)	Energy (26)	IEQ (24)
<i>PLATINUM</i>	75	15	18	17
<i>GOLD</i>	65	13	16	15
<i>SILVER</i>	55	11	12	12
<i>BRONZE</i>	40	9	10	10

Weighting & Grading

Sample Marking Scheme:

BEAM Plus for New Buildings Category	Credit Mark Earned (A)	Credit Mark Applicable (B)	% of Credit Marks Earned (C=100*A/B)	Category Weighting (D)	Weighted Category Mark (E=C*D)	Category Grade
Site Aspect	19	22	86%	0.25	22%	Platinum
Water Use	7	22	32%	0.08	3%	-
Energy Use	30	42	71%	0.35	25%	Platinum
Material Use	8	9	89%	0.12	11%	-
Indoor Environment Quality	25	32	78%	0.20	16%	Platinum
Total Weighted Category Mark					77%	
Innovation Credit Mark Earned					3	Platinum
Final BEAM Credit Mark					80%	Platinum
Overall BEAM Grade					Platinum	

Note: For BEAM Plus Interiors, all credits are applicable, there is no exclusions.

Scoring Example - NB

Category	Applicable Credits	Achieved Credits	% of Achieved Credits	Category Weight Factor	Weighted Achieved Score	Achieved Sub-Rating
Site Aspects	21	14	67%	25%	16.7	Gold
Materials Aspects	18	8	44%	8%	3.6	
Energy Use	40	15	38%	35%	13.1	Uncertified
Water Use	7	4	57%	12%	6.9	
Indoor Environmental Quality	32	27	84%	20%	16.9	Platinum
Innovation and Additions	1	3	300%	---	3.0	Platinum
Overall Rating					60.1	Uncertified

Scoring Example - EB

Category	Applicable Credits	Achieved Credits	% of Achieved Credits	Category Weight Factor	Weighted Achieved Score	Achieved Sub-Rating
Site Aspects	21	16	76%	18%	13.7	Platinum
Materials Aspects	18	15	83%	12%	10.0	
Energy Use	40	30	75%	30%	22.5	Platinum
Water Use	7	4	57%	15%	8.6	
Indoor Environmental Quality	32	27	84%	25%	21.1	Platinum
Innovation and Additions	1.0	3	600%	---	3.0	Platinum
Overall Rating					78.9	Platinum

BEAM Plus Certification Procedures

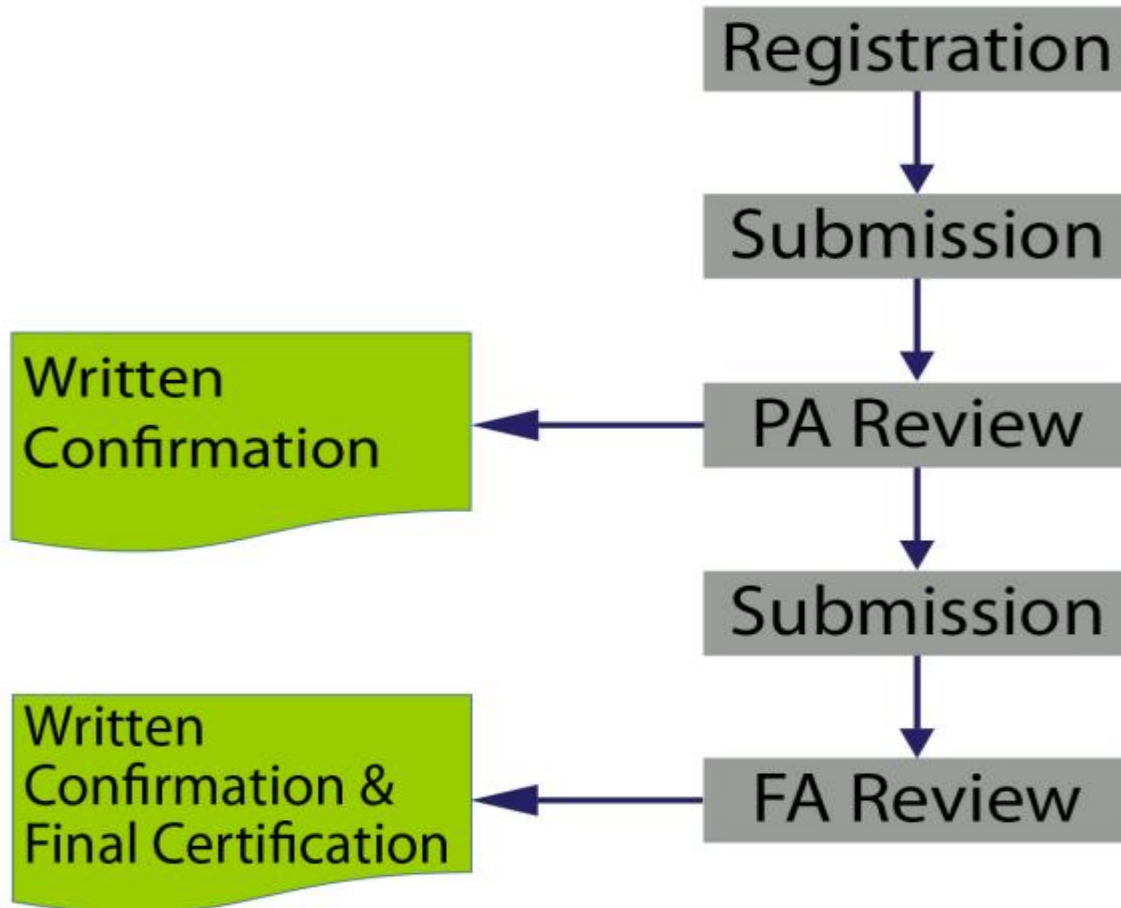


BEAM Plus Certification Procedures

DEFINITIONS

- **“Applicant”** means client, project team members or BEAM Pro
- **“BEAM Pro”** means BEAM Professional(s)
- **“Contract”** means the Agreement between BEAM Society Limited and the Applicant to conduct the BEAM Plus Assessment
- **“CIR”** means Credit Interpretation Request
- **“FA”** means Final Assessment
- **“PA”** means Provisional Assessment
- **“TRC”** means Technical Review Committee

BEAM Plus Certification Procedures



General Notes

- BEAM Society will assign BEAM Assessor(s) to handle the project.
- Once registered, the PA/ FA results will be disclosed.
- There is only **1** chance of assessment and **1** opportunity for clarification if asked for each PA and FA stage.
- The validity period for all BEAM Plus certificates is **5** years from the date of issue. **For BEAM Plus Interiors, the certificate shall also expire if the tenant leaves the premises before the expiry of the 5 years.**

Operation of BEAM Plus Certification

The logo for HKGBC (Hong Kong Green Building Council) features the letters "HKGBC" in a bold, sans-serif font. "HK" is in teal and "GBC" is in green.

Green Labelling Committee

Accreditation of BEAM Assessors

Certification of BEAM Plus Rating

Adjudication of Final Appeal

The logo for BEAM (Building Environmental Assessment Method) features the word "BEAM" in a teal, sans-serif font. The letter "A" is stylized to incorporate a green leaf-like shape.

Technical Review Committee

Engagement of BEAM Assessors

Recommendation of Rating

Response of CIR

Adjudication of First Appeal

Operation of BEAM Plus Certification

HKGBC

Green Labelling Committee
(GLC)

Project Registration for
BEAM Plus

Certification of BEAM Plus Rating

BEAM

Technical Review Committee
(TRC)

- Appointment of BEAM Assessors Team
- Response to CIRs
- Provisional Assessment Report
- Final Assessment

BEAM Plus Assessment Process

- The Assessment fee scale can be found on the following page

Please visit the link below for up-to-date information:

http://www.beamsociety.org.hk/en_beam_assessment_project_1.php

BEAM Plus Assessment Process

- **For NB Projects (Two-step approach)**
 - The Assessment Fee covers
 - Provisional Assessment
 - Final Assessment
- **For EB Projects (One-step approach)**
 - The Assessment Fee covers
 - Final Assessment

BEAM Plus Interiors Assessment Process

Single-stage Certification:

Upon completion of fit-out works and associated testing and commissioning.

Emphasize the importance of “as-built” performance in addition to good design and construction practices.

Applicants able to indicate their achievements at the earliest opportunity.

Other process and charges

- **Apart from the assessment fee, there are other charges including:**
- **Credit Interpretation Request** – CIR is not used for adjusting the assessment system. The argument on the applicability of the credits will not be entertained. **The Applicant may apply for CIR between project registration and submission for assessment. CIR applications after submission (or partial submission) will not be entertained.**
- **Appeal** – When the Applicant disagrees with or does not accept the decision, the Applicant is entitled to submit an Appeal.

Appeal System

The following rules and condition shall be addressed:

- The **First Appeal** should be submitted in **writing to BSL within 30 calendar** days after receiving the PA result from BSL. Appeal response shall be issued within **60 calendar days**;
- **Only credits** can be appealed.
- The First Appeal submission will be reviewed by the TRC of BSL.
- The **Final Appeal** will be **addressed by HKGBC**. A Final Appeal Panel will be formed. Feedback shall be issued within **90 calendar days** after the formation of the Panel.
- Repeated submission of the same item will not be entertained.

BEAM Circular Letters

- Any update on BEAM Plus assessment criteria will be announced to BEAM Pro via BEAM circular letters.
- All circular letters shall be uploaded to BEAM Society website.

BEAM Assessment Tool > Technical Circular Letter

Technical Circular Letter

BEAM Society Ltd. Publish Technical Circular Letter at regular intervals, please click the following links to view the relevant content.

Circular Letter	Description
2012.109	MA P4 Waste Recycling Facilities
2012.108 r1.1	BEAM Provisional Assessment Criteria Compliance
2012.107	BEAM Plus New Buildings v 1.1 page8-22, Appendix 8.6 Assumptions and Baselines for Water Consumption
2011.106	Appendix 8.6 Assumptions and Baselines for Water Consumption
2011.105	MA P1 Timer used for Temporary Works and MA 6 Sustainable Forest Products
2011.104	WU2 Monitoring and Control
2011.103	Ecological Impact SA5
2011.102	Engaging Society
2011.101	Assessor Site Verification

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This site is best viewed with an 1024x768 screen and Internet Explorer 7 or above.

Please visit the following webpage

http://www.beamsociety.org.hk/en_beam_assessment_project_2.php

BEAM Circular Letter 2011.101

Assessor Site Verification

This circular letter announces the change of verification method from visual site inspection to documentary submission by Applicant as the prescribed methodology for demonstrating compliance with individual credit requirements.

The existing BEAM Plus guide books contain several clauses stating that the BEAM Assessor will visit the site to verify certain criteria and conditions have been achieved. Under the new regime, assessments shall be undertaken anonymously and therefore the Assessor will not physically visit the site; therefore the Applicant must submit all necessary evidence, in the form of but not limited to, documents or photographic records to demonstrate compliance with relevant criteria to the satisfaction of the Assessor.

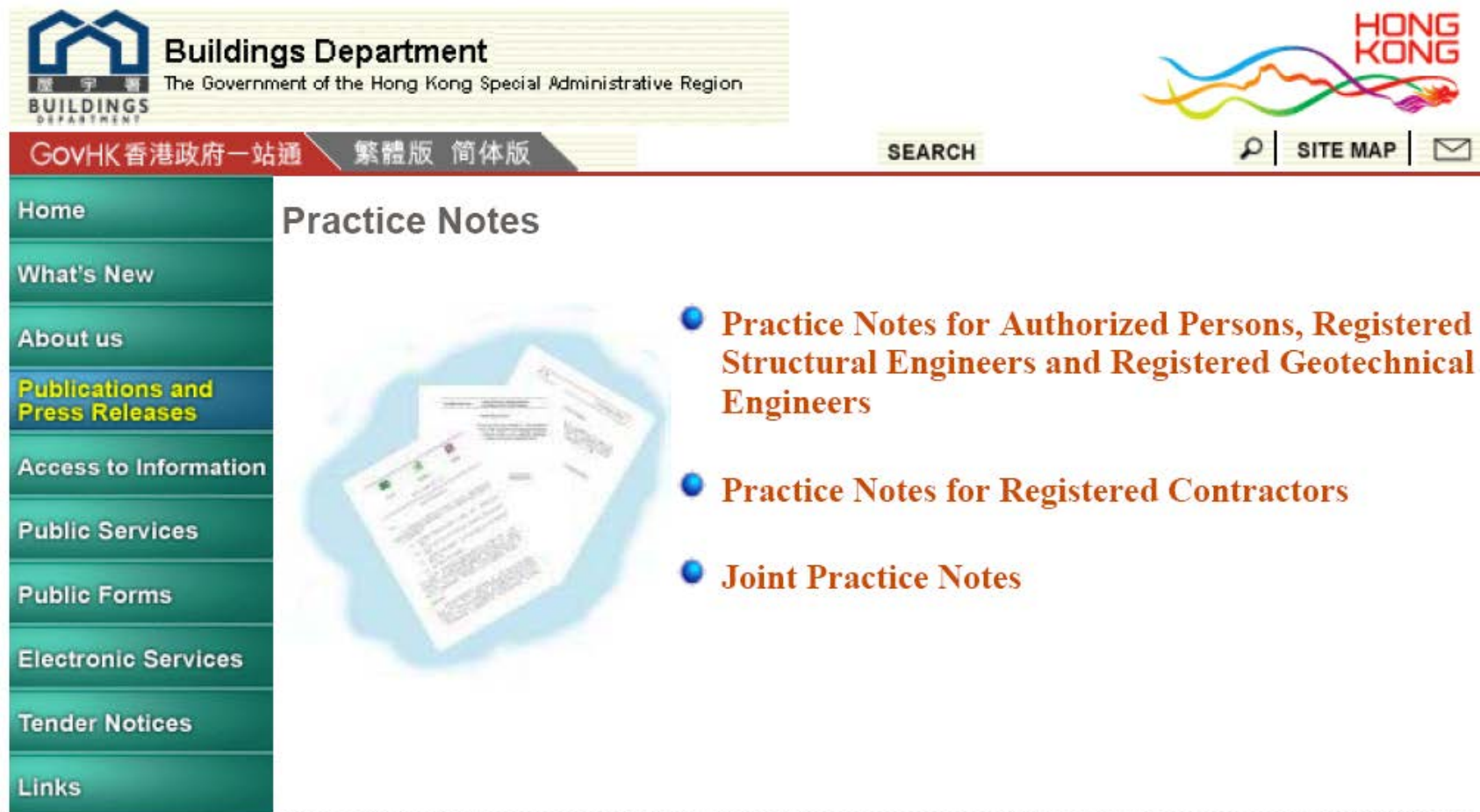
Signed: _____

Chair of Technical Review Committee

BEAM Plus Interiors Site Audit

- BEAM Society Limited (BSL) reserves the right to conduct on-site inspection(s) at any time without advance notice to verify and validate Applicants' submission.
- The outcome of this audit shall be used for assessment purposes.

BEAM Plus and PNAPs



The screenshot shows the Buildings Department website. The header includes the logo of the Buildings Department, the text "Buildings Department" and "The Government of the Hong Kong Special Administrative Region", and the "HONG KONG" logo. A navigation bar contains "GOVHK 香港政府一站通", "繁體版 简体版", and "SEARCH". A sidebar on the left lists menu items: Home, What's New, About us, Publications and Press Releases (highlighted), Access to Information, Public Services, Public Forms, Electronic Services, Tender Notices, and Links. The main content area is titled "Practice Notes" and features a graphic of documents and a list of three items:

- **Practice Notes for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers**
- **Practice Notes for Registered Contractors**
- **Joint Practice Notes**

2004 © | [Important notices](#) | [Privacy policy](#)

Last review date : 20 July 2010

BEAM Plus and PNAPs

PNAP APP-130

Lighting & Ventilation Requirements Performance-based Approach

a) Natural Lighting

<i>Room of domestic building</i>	<i>Vertical Daylight Factor (VDF)¹ (measurement taken on the centre of the window pane)</i>
Habitable Room	8%
Kitchen	4%

b) Natural Ventilation

<i>Room of domestic building</i>	<i>Air Change per Hour (ACH)</i>
Habitable Room	1.5 (natural means)
Kitchen	1.5 (natural means) plus 5 (mechanical means)

- Achieve 40% of EU and IEQ on BEAM Plus PA

BEAM Plus and PNAPs

PNAP APP-150

Wholesale Conversion of Industrial Buildings

- Exemption/modification to natural lighting & Ventilation
- Meet 40% of BEAM Plus certification, PA on Energy Use (EU) and Indoor Environmental Quality (IEQ)



BEAM Plus and PNAPs

PNAP APP-151

Building Design to Foster a Quality and Sustainable Built Environment

Effective 1st April 2011, BEAM Plus will be applied to measure new buildings development which include the following:

- require **BEAM Plus** green building certification process as a prerequisite for 10% gross floor area (GFA) concessions for green / amenity features and non-mandatory / non-essential plant rooms and services in new building developments.

BEAM Plus and PNAPs

PNAP APP-152

Sustainable Building Design Guidelines

- Buildings with special functional requirements cannot fulfill the building separation requirements.....
- Can be considered exempting by
 - a) Fulfill BEAM Plus NB **SA 8c (AVA)**; AND
 - b) **Either** BEAM Plus NB **SA 8a or SA 8b**.

Innovations & Additions

- Bonus credits in the rest of the sections are counted in this section.
- All innovative credits will be reviewed and approved by TRC.
- **Innovative Techniques** – Advance practices and new techniques not yet been widely adopted in Hong Kong or even elsewhere.
- **Performance Enhancements** - Strategies and techniques perform significantly better than BEAM requirements.

Innovations & Additions

		Credits Applicable	Credit(s) Achieved	Possible Credit(s)	Remark
3	MATERIALS ASPECTS				
3.P	PREREQUISITE				
MA P1	TIMBER USED FOR TEMPORARY WORKS Virgin forest products are not used for temporary works during construction.	Pre-requisite			
MA P2	USE OF NON-CFC BASED REFRIGERANTS Using no chlorofluorocarbon (CFC)-based refrigerants in HVAC&R systems.	Pre-requisite			
MA P3	CONSTRUCTION/DEMOLITION WASTE MANAGEMENT PLAN Implementation with proof of documentation of a waste management system that provides for the sorting, recycling and proper disposal of construction / demolition materials. <i>EXCLUSIONS: Project where demolition is not required or is not under the Client's control.</i>	Pre-requisite			
MA P4	WASTE RECYCLING FACILITIES Provision of facilities for the collection, sorting, storage and disposal of waste and recovered materials.	Pre-requisite			
3.1	EFFICIENT USE OF MATERIALS				
MA 1	BUILDING REUSE 1 credit for the reuse of 30% or more of existing sub-structure or shell. 2 credits for the reuse of 60% or more of existing sub-structure or shell. 1 additional BONUS credit for use of 90% or more of existing substructure or shell.	1 2 Bonus	1 1 1		
	<i>EXCLUSIONS: Buildings on reclaimed land or Greenfield sites.</i>				
MA 2	MODULAR AND STANDARDISED DESIGN 1 credit for demonstrating the application of modular and standardized design.	1	1		
MA 3	PREFABRICATION 1 credit when the manufacture of 20% of listed prefabricated building elements has been off-site. 2 credits where the manufacture of 40% of listed prefabricated building elements has been off-site.	1 1	0 0		
MA 4	ADAPTABILITY AND DECONSTRUCTION a) Spatial adaptability 1 credit for designs providing spatial flexibility that can adapt spaces for different uses, and allows for expansion to permit additional spatial requirements to be accommodated. b) Flexible engineering services 1 credit for flexible design of services that can adapt to changes of layout and use.	1 1	1 1		

Innovations & Additions

Counted in Innovations & Additions Category

		<i>Credits Applicable</i>	<i>Credit(s) Achieved</i>	<i>Possible Credit(s)</i>	<i>Remark</i>
7	INNOVATIONS AND ADDITIONS				
SA 1	CONTAMINATED LAND	Bonus	0	0	
SA 4	1 BONUS credit for 100% of relevant sub-items of the Urban Design Guidelines are achieved.	Bonus	0	0	
SA 5	ECOLOGICAL IMPACT	Bonus	1	0	
MA 1	1 BONUS credit for use of 90% or more of existing substructure or shell.	Bonus	1	0	
EU 3	1 BONUS credit for demonstrating the major materials with low embodied energy are used in the project utilizing the LCA results.	Bonus	0	0	
EU 10e	Independent Commissioning Authority	Bonus	1	0	
WU 4c	A combination of rainwater and grey water	Bonus	0	0	
IEQ 12b	Use of natural ventilation	Bonus	0	0	
IEQ 16	1 BONUS credit where provision of automatic control of artificial lighting such as	Bonus	0	0	
IEQ 19	For residential development only, 1 BONUS credit for demonstrating impact noise isolation between floors meets the prescribed criteria.	Bonus	0	0	
IA 1	INNOVATIVE TECHNIQUES	Bonus	0	0	
IA 2	PERFORMANCE ENHANCEMENTS	Bonus	0	0	
IA 3	BEAM PROFESSIONAL	1	1	0	
	Sub-Total Number of Innovative/Performance Enhancement and Bonus Credits	1	4	0	

Innovations & Additions

If you want to apply for innovation, please provide:

- System design details
- Quantified environmental benefit

Innovations & Additions

Examples:

- Better daylight factor performance
- More greenery



Join In !!!



- YOU are One of stakeholders.

Sustainable
/ Green Design
Movement
in Hong Kong



Can visitors see a greener H.K. in 5 years time?



YES.

Steps to Green

Thinking Process

Living

Family

Work Place

Project

Our Thinking Process

- SAVE energy
- SAVE water
- SAVE resources



Our Living



Role Model /
Set Example



Min. E- Wastes



Carbon Footprint



Min. Food Wastes

Our Family

Grow A Green Family



Buy
Less
Stuff



Use Green Cleaning

Discuss on
GREEN Issues

Appreciate
& Love
Nature



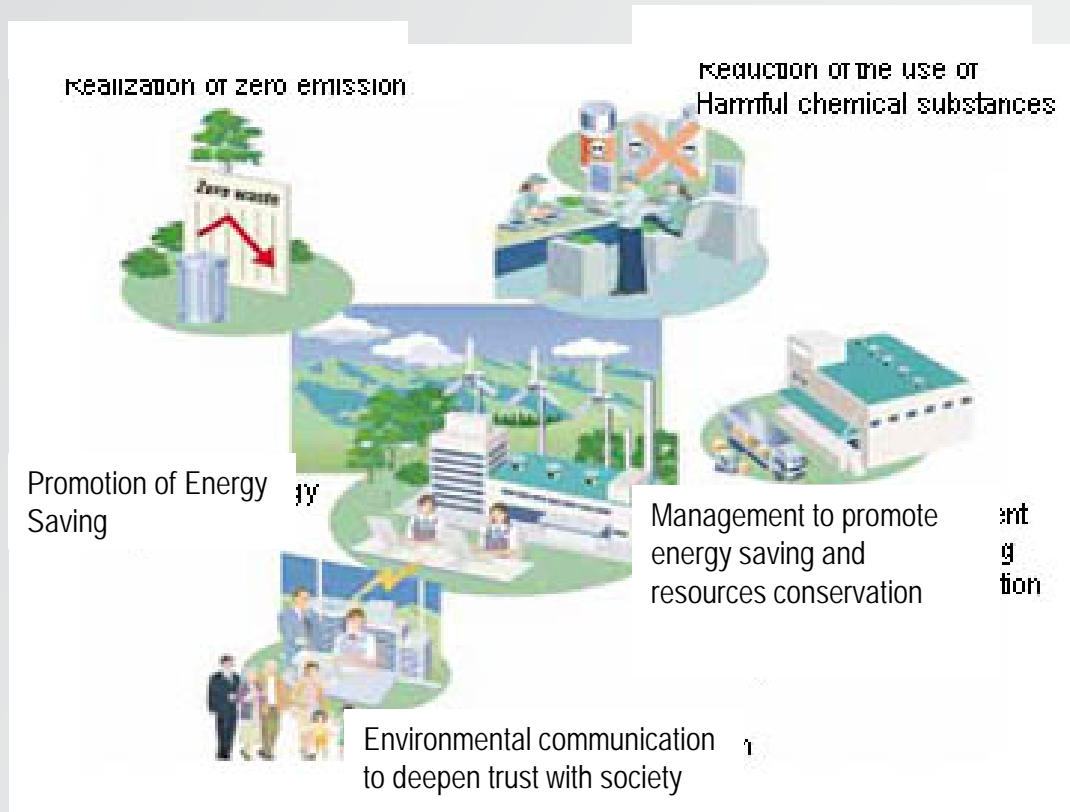
Have a
Healthy Life



Climate Changes

Our Work Place

- Green Management – GREEN your Office



SAVE \$\$, GAIN Reputation, EARN Profit

Our Project

- New & AA
- Exceed BEAM Plus



Sustainable Capital Works

Our Project

Benefits of Saving in Energy & Resources



SAVE Resources SAVE Money SAVE Life



Thank you

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