



Green building assessment



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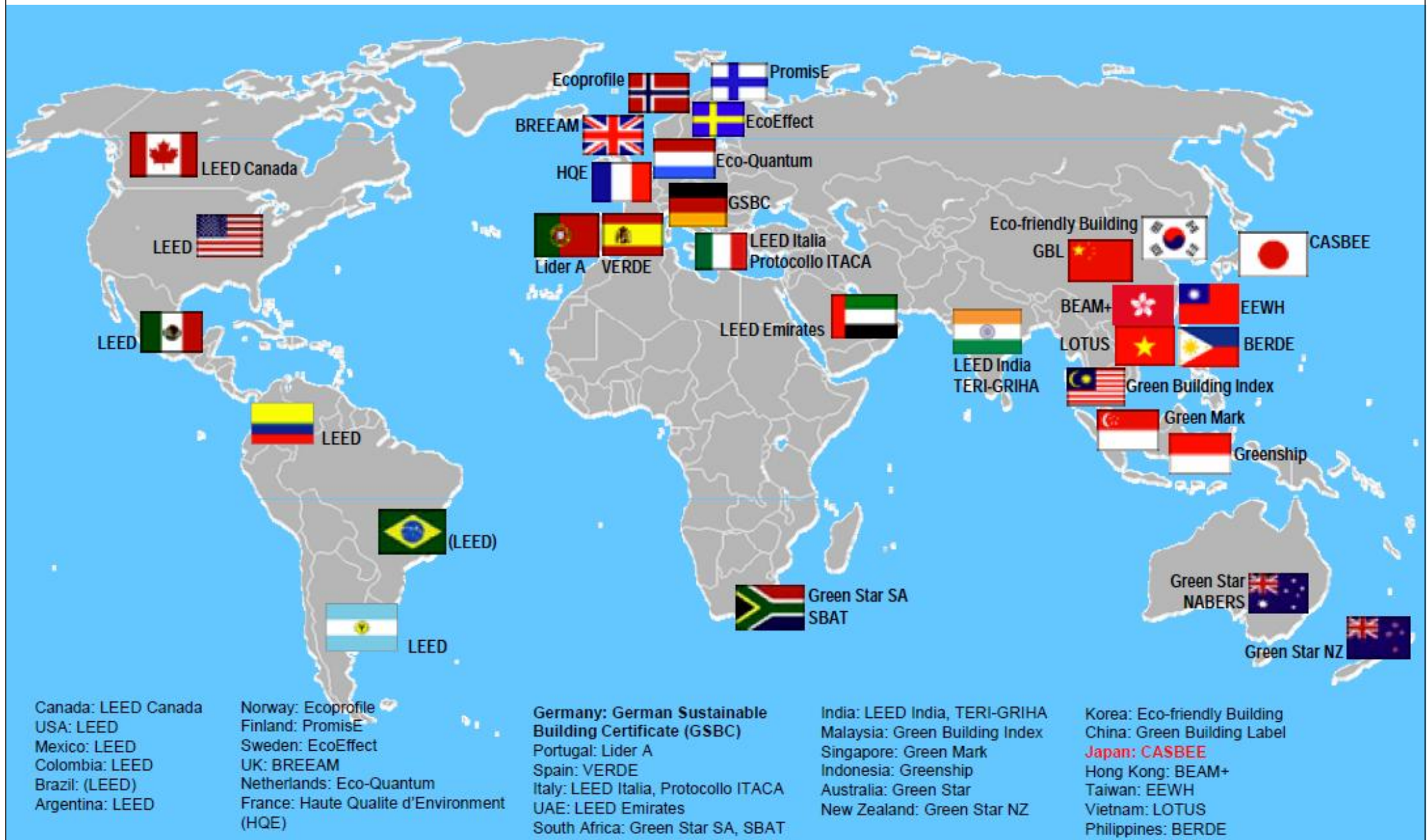
Contents



- BREEAM-UK
- LEED-USA
- CASBEE Japan
- GreenMark Singapore
- GBI Malaysia
- China
- Taiwan
- Hong Kong



Rating tools of building environmental performances around the world



Canada: LEED Canada
 USA: LEED
 Mexico: LEED
 Colombia: LEED
 Brazil: (LEED)
 Argentina: LEED

Norway: Ecoprofile
 Finland: Promise
 Sweden: EcoEffect
 UK: BREEAM
 Netherlands: Eco-Quantum
 France: Haute Qualite d'Environment (HQE)

Germany: German Sustainable Building Certificate (GSBC)
 Portugal: Lider A
 Spain: VERDE
 Italy: LEED Italia, Protocollo ITACA
 UAE: LEED Emirates
 South Africa: Green Star SA, SBAT

India: LEED India, TERI-GRIHA
 Malaysia: Green Building Index
 Singapore: Green Mark
 Indonesia: Greenship
 Australia: Green Star
 New Zealand: Green Star NZ

Korea: Eco-friendly Building
 China: Green Building Label
Japan: CASBEE
 Hong Kong: BEAM+
 Taiwan: EEWH
 Vietnam: LOTUS
 Philippines: BERDE

Further info: http://en.wikipedia.org/wiki/Green_building

(Adapted from *CASBEE in Progress for Market Transformation in Japan*, by Prof. Kazuo Iwamura, Tokyo City University)

BREEAM-UK



- BREEAM – UK (since 1990)
 - **B**uilding **R**esearch **E**stablishment **E**nvironmental **A**ssessment **M**ethod
 - Used as a reference in many countries
 - BREEAM family of assessment methods & tools
 - Any types of buildings (new and existing)
 - BREEAM International (outside of UK)
 - BREEAM In-Use (building management)
 - BREEAM Communities (planning stage)
 - Website: www.breeam.org/

breeam



BREEAM-UK



- BREEAM – UK (cont'd)

- Credits awarded for a set of performance criteria

- Energy, water, pollution, materials, transport, ecology and land use, health and well being

- Construction & building operational management

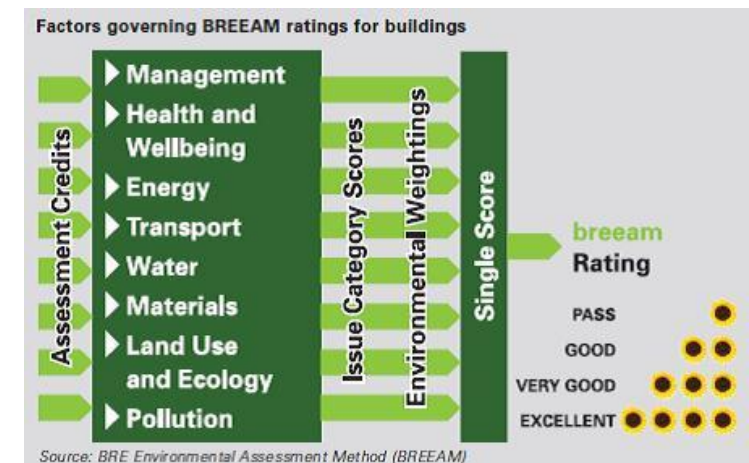
- A weighting system is applied to determine final rating

- Stages of building development

- Design & procurement

- Management & operation

- Post construction review



Assessment areas of BREEAM-UK

Minimum Standards

- Energy
- Management
- Health & Well-being
- Water
- Waste
- Land Use & Ecology

Tradable Credits

- Energy
- Water
- Materials
- Transport
- Waste
- Pollution
- Health & Well-being
- Management
- Land Use & Ecology

Innovation Credits

- Exemplary Performance Requirements
- Approved Innovation Credits

Category Scores

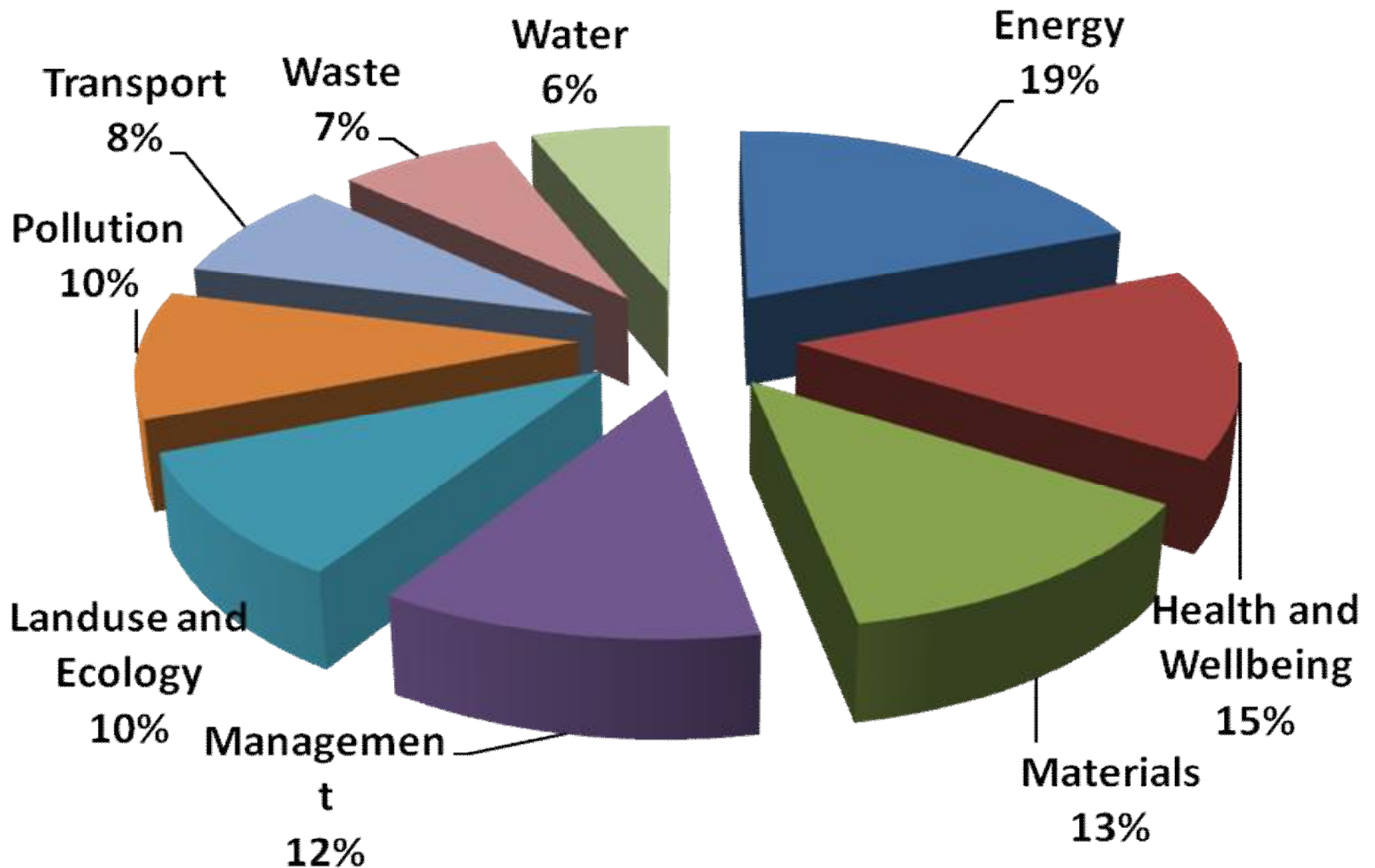
Environmental Weighting

Final Score

Pass	≥ 30
Good	≥ 45
Very Good	≥ 55
Excellent	≥ 70
Outstanding	≥ 85

breeam

Assessment weightings of BREEAM-UK



(Source: BRE, UK)

Which are the most important aspects?

BREEAM-UK



- BREEAM – UK (cont'd)
 - Overall score rating:
 - Pass, Good, Very Good, Excellent, Outstanding
 - BREEAM Assessors
 - BREEAM Accredited Professional (**BREEAM AP**) and examination/training
 - Up to 3 credits if a BREEAM AP is engaged (BREEAM 2011)

To encourage using green building professionals

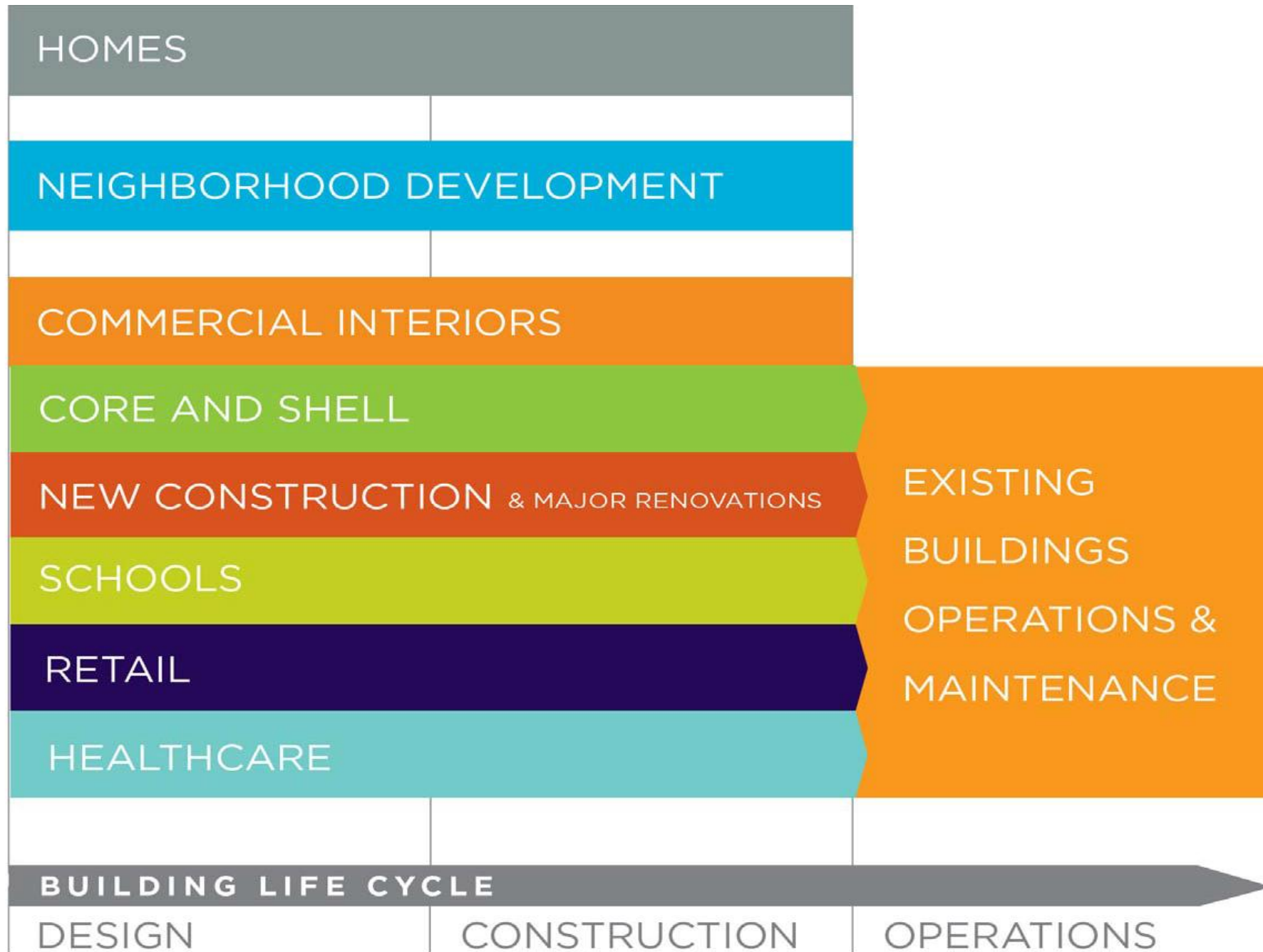
LEED-USA



- LEED Green Building Rating System
 - Leadership in Energy & Environmental Design
 - By US Green Building Council
 - Current LEED systems:
 - New construction (LEED-NC) or Building design and construction (BD+C)
 - Existing buildings operations & maintenance (LEED-EBOM) (O+M)
 - Commercial interiors (LEED-CI)
 - Core and shell (LEED-CS)
 - Homes, Schools, Healthcare, Retail
 - Neighborhood development (LEED-ND)



LEED Green Building Rating



(Source: USGBC <http://www.usgbc.org/leed>)

LEED Rating System

Credit Categories

Prerequisites

+

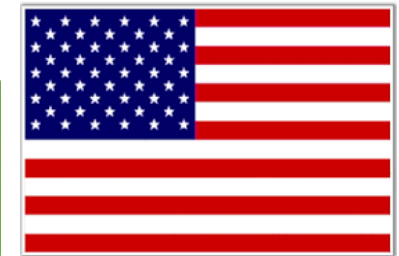
Credits

Satisfy mandatory requirements + earn points

Certified, Silver, Gold or Platinum

(See also: Intro To LEED Certification - GreenEDU.com (3:53)
<http://www.youtube.com/watch?v=DTIZBFeF2Nc>)

LEED-USA



- LEED Green Building Rating System

- Evaluates and recognizes performance in accepted green design categories, including:



- Sustainable sites

- Water efficiency



- Energy and atmosphere

- Materials and resources



- Indoor environmental quality

- Innovation credits



- Website: <http://www.usgbc.org/leed>

Different versions
of LEED NC:
v.1.0, v.2, v.2.1,
v.3, v.4

Phillip Merrill Environmental Center Headquarters Annapolis, Maryland



LEED™ 1.0 Certification:
PLATINUM

Notes from the Project Team: *LEED™ was instrumental in conveying the importance of the sustainable elements of the design to CBF's Board of Trustees.*

Sustainable Sites

- **Site Selection:** *Erected in Smart Growth Funding Area on footprint of existing structure. 26.6 acres remain undisturbed in Land Trust.*
- **Educational Model:** *Interpretive trails & demonstrations for public visitors*
- **Storm/Waste Water:** *All Composting Toilets & Bioretention/Wetland*
- **Resource Protection:** *Woodland, Wetland, & Tidal Water Restoration*

Water Efficiency

- **Water:** *Rainwater Catchment & Reuse for Hand Washing & Irrigation*

Energy and Atmosphere

- **Domestic Hot Water:** *Thermomax-Solar Technology*
- **Energy:** *Exceeds ASHRAE/IES Standard 90.1-1989 by 50%*
- **HVAC:** *Natural Ventilation and Desiccant Dehumidification & Heat Recovery*
- **Controls/Monitoring:** *Building Energy management System, "Green Light" notifies staff to open windows when outside conditions comply*
- **Power Source:** *30% Renewable with Geo-Exchange & Photovoltaics*
- **Lighting:** *Daylight Harvesting and time clock lighting controls*
- **Rapidly Renewable:** *Bamboo, cork and linoleum floorings*
- **Recycled Content:** *Metal roofing and siding, acoustic ceiling, ceramic tile, and MDF cabinetry*

Materials and Resources

- **Structure:** *Rapidly Renewable-Paralam Post, Beam, and Truss system*
- **Envelope:** *Structural Insulated Panels (SIP) R-20 walls, R-30 roof*

Indoor Environmental Quality

- **Indoor Environmental Quality:** *CO₂ and VOC monitors.*
- **Furniture:** *Small, open offices allow for communal space. Systems furniture allows flexible layout to accommodate "churn"*






Owner:	Chesapeake Bay Foundation		
Project Team:	Architect:	SmithGroup, Inc.	
	Engineer:	SmithGroup, Inc.	
	P.Manager:	Synthesis, Inc.	
	Contractor:	Clark Construction Group	
	Consultant:	Janet Harrison, Architect	
Building Statistics:			
Completion Date:	November, 2000		
Cost:	\$6.36 M		
Size:	30,600 gross square feet		
Footprint:	12,000 square feet		
Construction Type:	3B, Two Stories over Open Parking		
Use Group:	Business(B), Assembly(A-3), Storage(S-2)		
Lot Size:	33 acres		
Annual Energy Use:	23 kBtu/sf/year		
Occupancy:	90 Staff		

(Source: USGBC)

LEED-USA



- LEED version 3 and new schemes
 - Include other criteria
 - Locations & linkages 
 - Awareness & education 
 - Regional priority 
 - LEED Professionals
 - LEED Green Associate
 - LEED AP (different types)
 - Bldg design & construction, O&M, Homes, Interior design, Neighborhood development

LEED® for New Construction

Total Possible Points 110***

 Sustainable Sites	26
 Water Efficiency	10
 Energy & Atmosphere	35
 Materials & Resources	14
 Indoor Environmental Quality	15

* Out of a possible 100 points + 10 bonus points

** Certified 40+ points, Silver 50+ points, Gold 60+ points, Platinum 80+ points

 Innovation in Design	6
 Regional Priority	4



LEED® for Existing Buildings

Total Possible Points 110***

 Sustainable Sites	26
 Water Efficiency	14
 Energy & Atmosphere	35
 Materials & Resources	10
 Indoor Environmental Quality	15

* Out of a possible 100 points + 10 bonus points

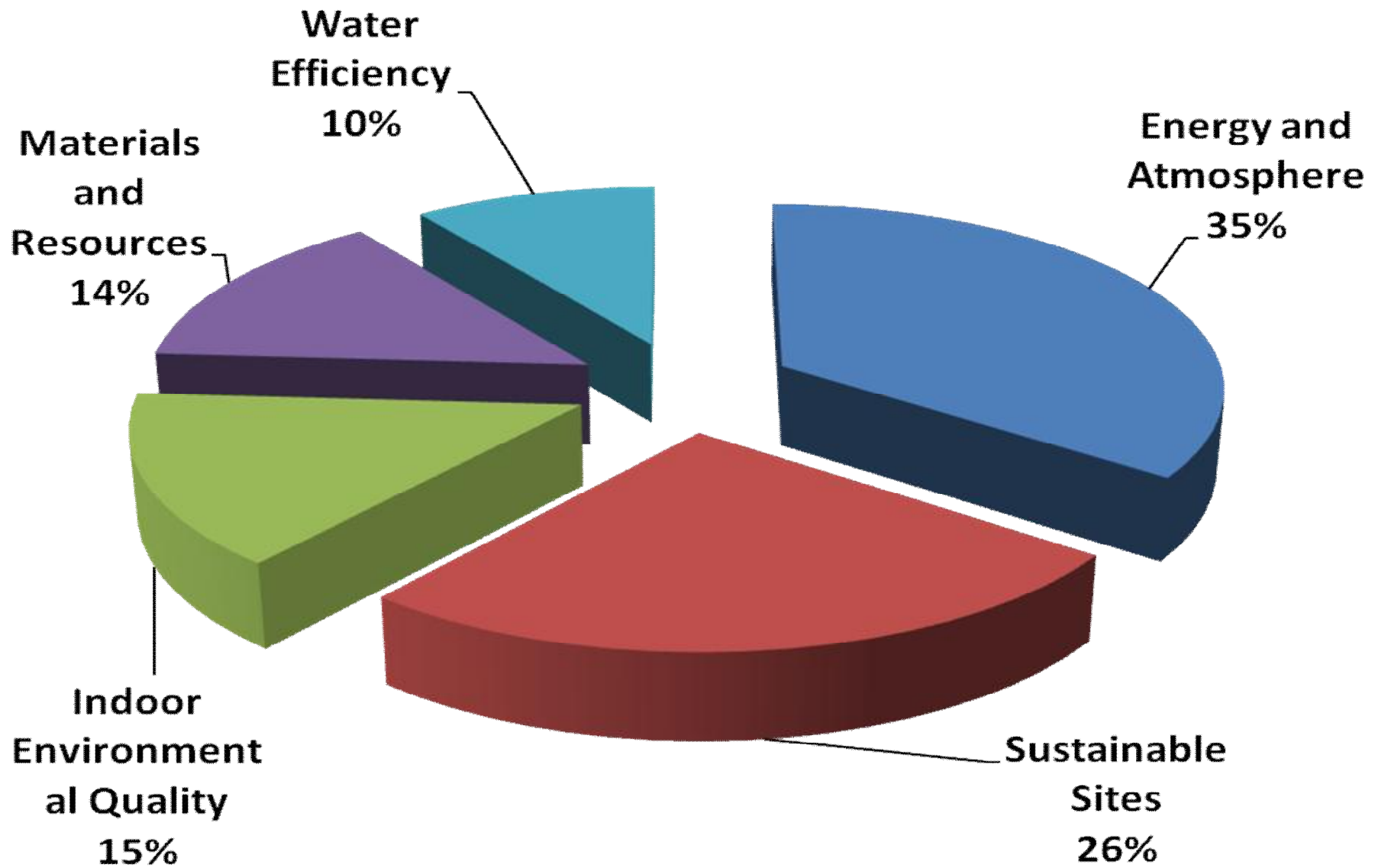
** Certified 40+ points, Silver 50+ points, Gold 60+ points, Platinum 80+ points

 Innovation in Operations	6
 Regional Priority	4

(Source: USGBC)

For LEED version 3

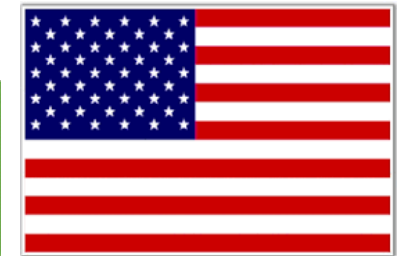
LEED NC point distribution (version 2009)



(Source: USGBC)

Which are the most important aspects?

LEED-USA



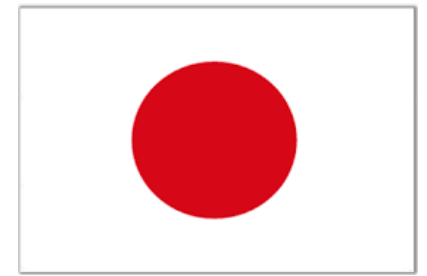
- LEED v4 (current version)*
 - Location & Transportation (LT)
 - Sustainable Site (SS)
 - Water Efficiency (WE)
 - Energy and Atmosphere (EA)
 - Materials and Resources (MR)
 - Indoor Environmental Quality (EQ)
 - Innovation (IN)
 - Regional Priority (RP)



(* See also <http://new.usgbc.org/leed/v4>)

LEED v4

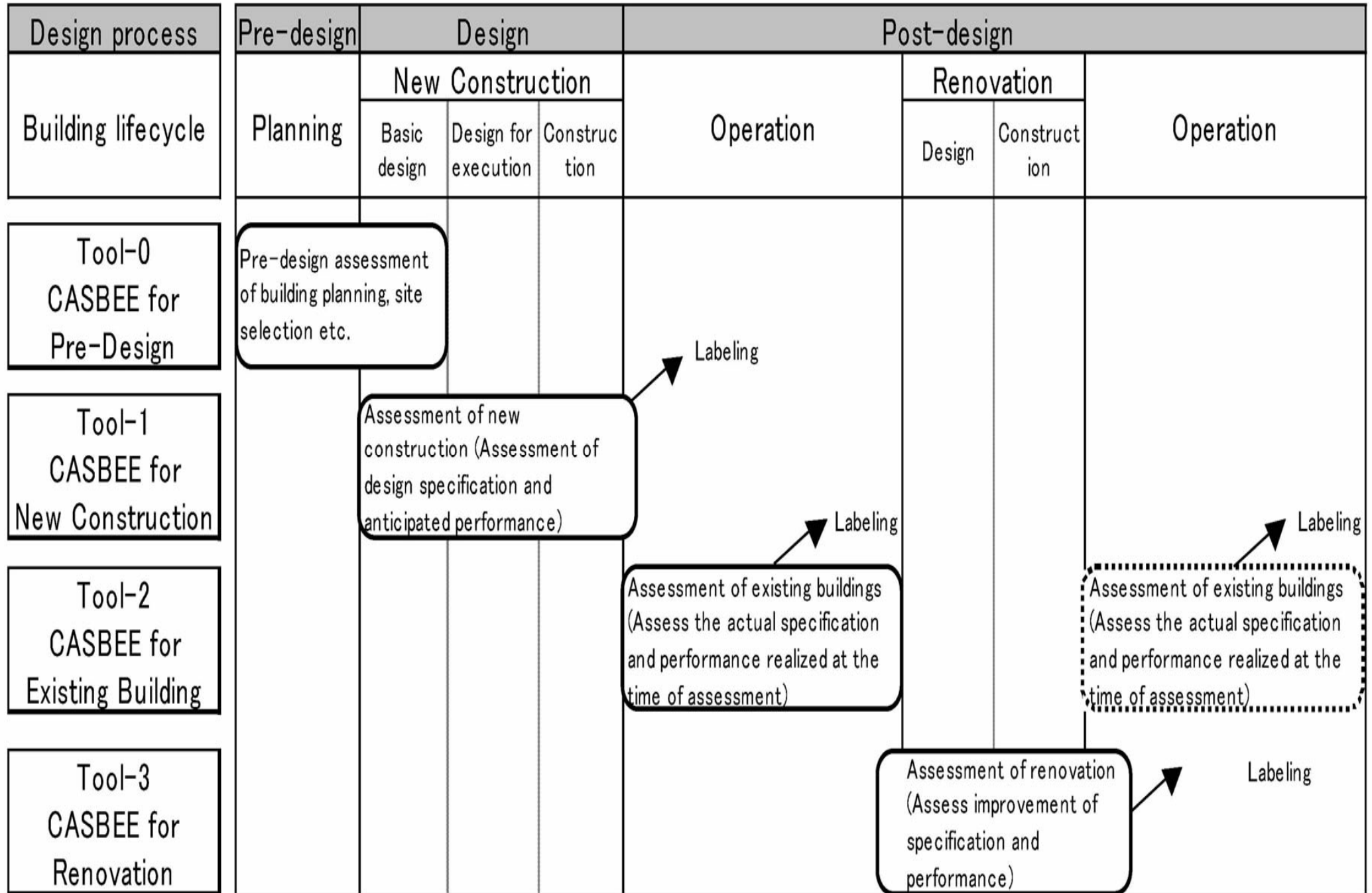




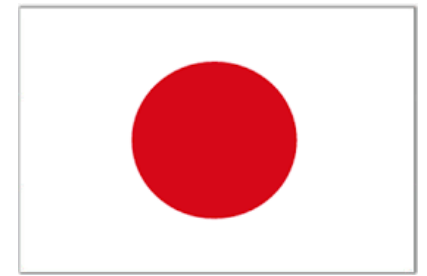
CASBEE Japan

- CASBEE (Comprehensive Assessment System for Building Environmental Efficiency), Japan
 - Tool-0: Pre-design
 - Tool-1: New Construction
 - Tool-2: Existing Buildings
 - Tool-3: Renovation
 - Website: www.ibec.or.jp/CASBEE/

CASBEE Building Lifecycle and Four Assessment Tools



(Source: IBEC, Japan)



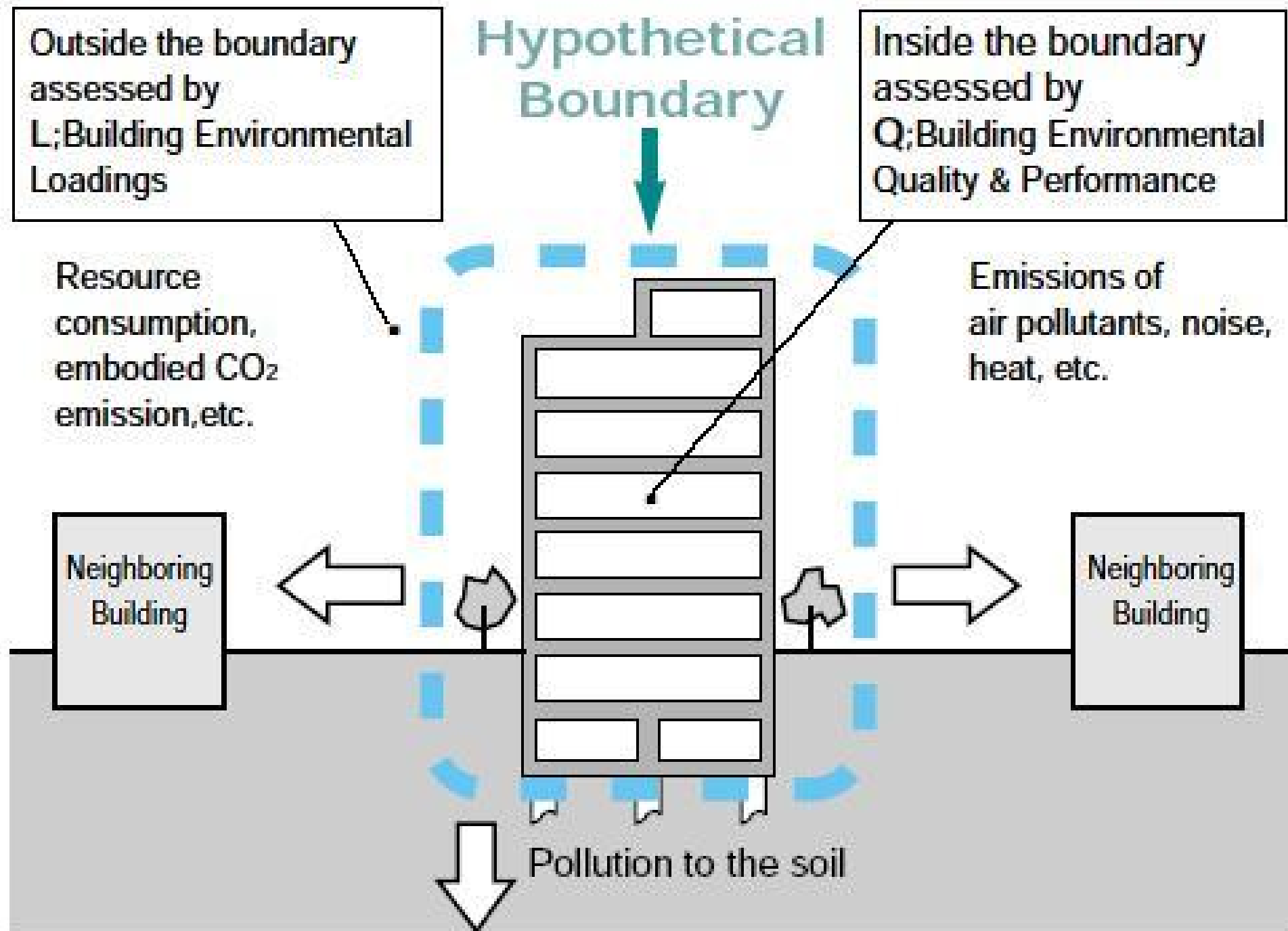
CASBEE Japan

- CASBEE system:
 - CASBEE for New Construction
 - CASBEE for Existing Building
 - CASBEE for Renovation
 - CASBEE for Heat Island
 - CASBEE for Urban Development
 - CASBEE for an Urban Area + Buildings
 - CASBEE for Home (Detached House)

CASBEE® 建築環境総合性能評価システム

Comprehensive Assessment System for Built Environment Efficiency



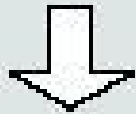


(Source: IBEC, Japan)

From Eco-efficiency of a building to BEE

Original definition:
(WBCSD)

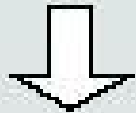
$$\frac{\text{Values of products or services}}{\text{Environmental load unit}}$$



Modeled definition:

Beneficial output

$$\frac{\text{Beneficial output}}{\text{Input} + \text{Non-beneficial output}}$$



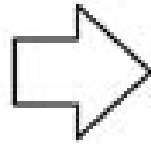
Definition of BEE
in CASBEE:

$$\frac{\text{Building Environmental Quality \& Performance}}{\text{Building Environmental Loadings}}$$

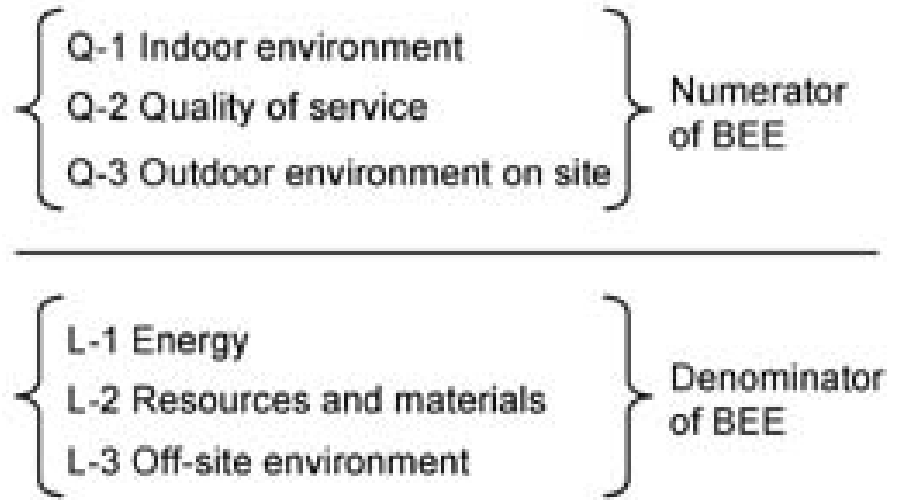
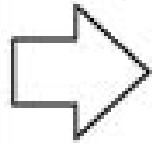
Building Environmental Efficiency (BEE)

$$= \frac{\text{Building Environmental Quality \& Performance}}{\text{Building Environmental Loadings}}$$

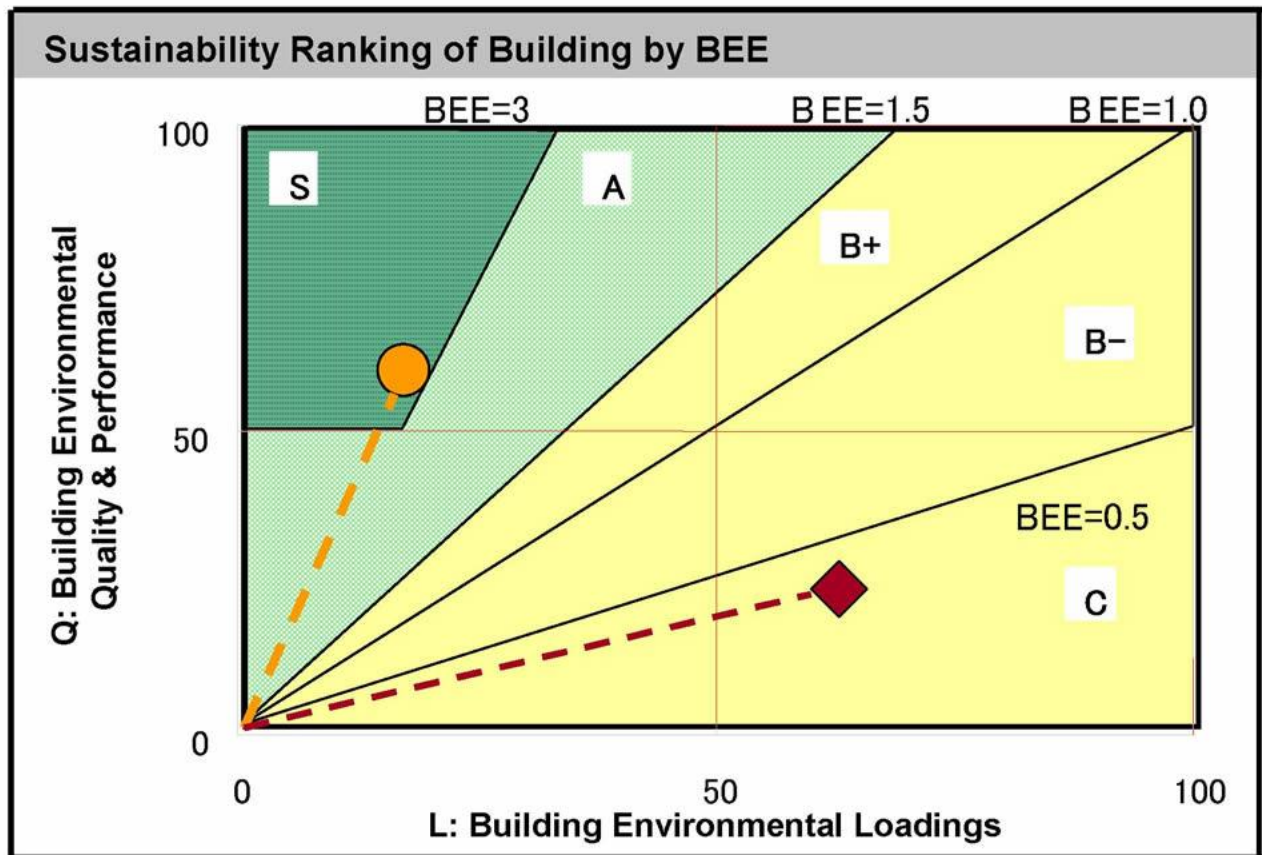
- (1) Energy efficiency
- (2) Resource efficiency
- (3) Local environment
- (4) Indoor environment



Recategorized
into
Q (Quality)
and
L (Loadings)



(Approx. 80 sub-items in total)



- ◆ : Ordinary Building
- : Sustainable building (Sample)

- CASBEE Ranking:**
- S = ★ ★ ★ ★ ★
 - A = ★ ★ ★ ★
 - B+ = ★ ★ ★
 - B- = ★ ★
 - C = ★

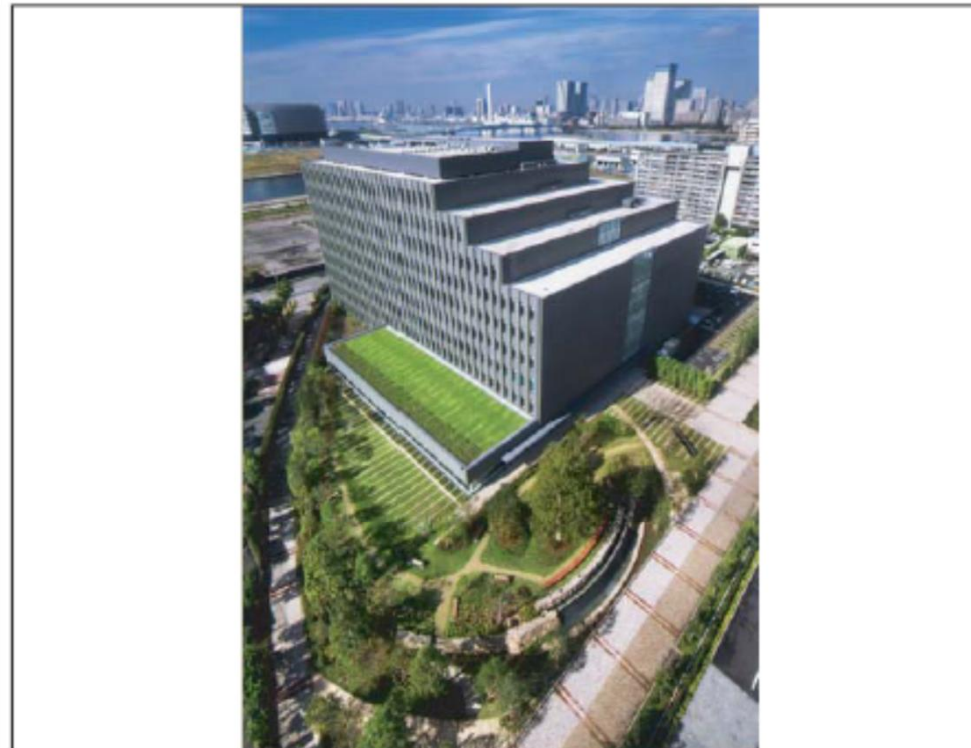
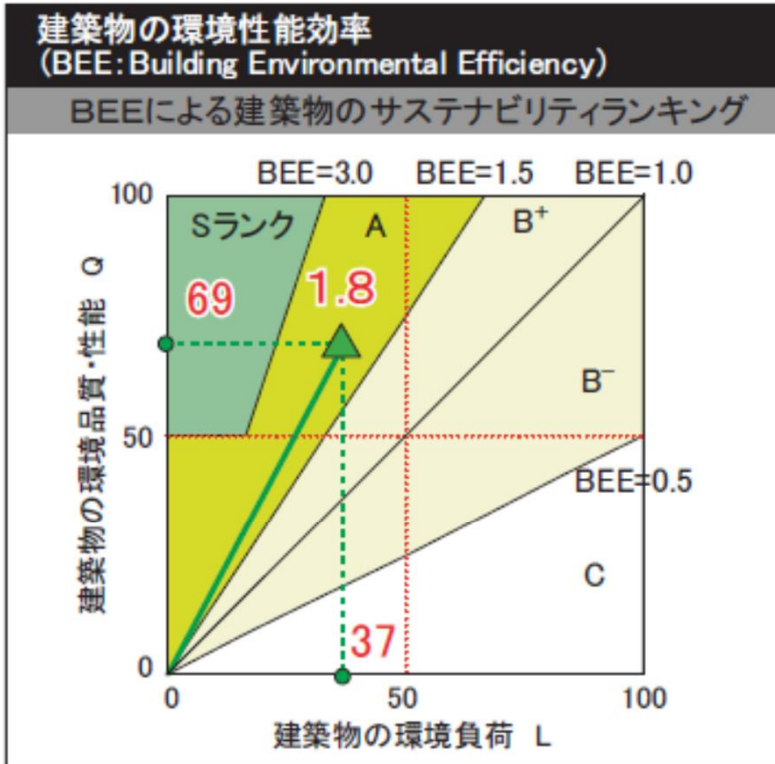
(Source: IBEC, Japan)

CASBEE® 評価内容

CASBEE-新築(簡易版)

評価ツール CASBEE-NCb_2006v1.2
 認証番号 IBEC-C0046-NCb(c)
 交付日 2009年3月10日

建物名称	NBF豊洲ガーデンフロント	敷地面積	12,551.33㎡
建物用途	事務所	建築面積	5,092.29㎡
建設地	東京都江東区豊洲5丁目6-7	延床面積	36,310.82㎡
気候区分	—	階数	地上10階
地域・地区	準工業地域、準防火地域、第三種高度地区	構造	S造
竣工日	2007年9月30日	平均居住人員	5,660人
		年間使用時間	2,500時間/年

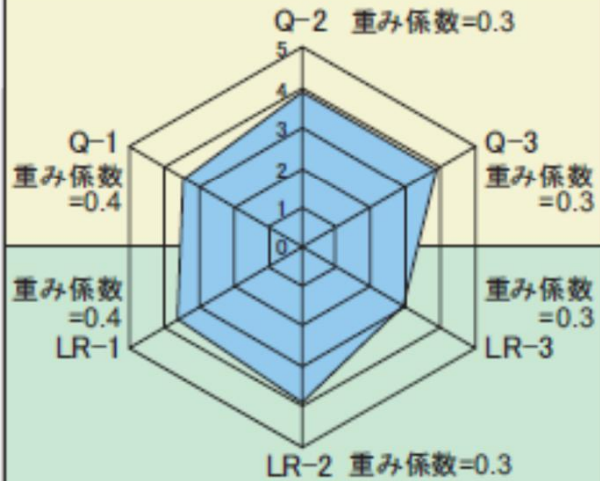


$$BEE = \frac{\text{建築物の環境品質・性能 } Q}{\text{建築物の環境負荷 } L} = \frac{25 \times (S_Q - 1)}{25 \times (5 - S_{LR})} = \frac{69.0}{37.0} = 1.8$$

(Source: IBEC, Japan)

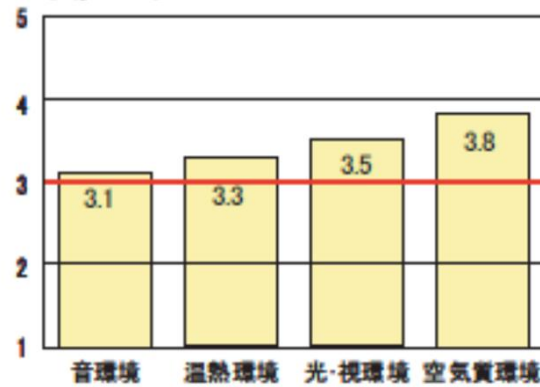
建築物の環境品質・性能と環境負荷低減性

レーダーチャート

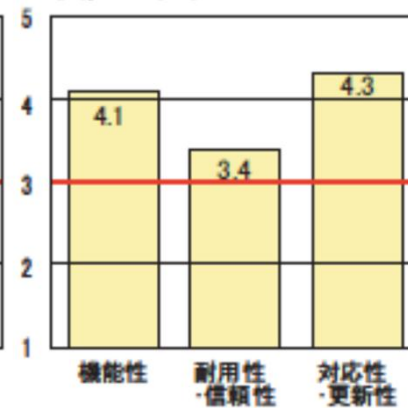


Q 建築物の環境品質・性能 (建築物の居住環境のアメニティを向上させる性能評価) $S_Q = 3.7$

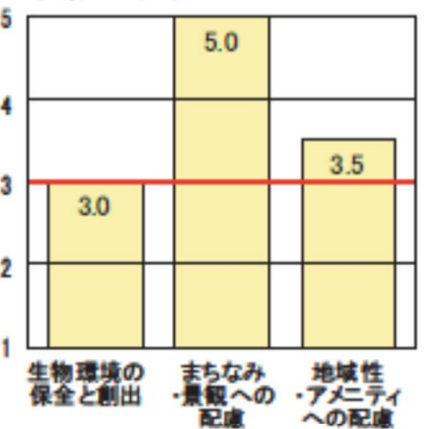
Q-1:室内環境 $S_{Q1} = 3.4$



Q-2:サービス性能 $S_{Q2} = 3.9$



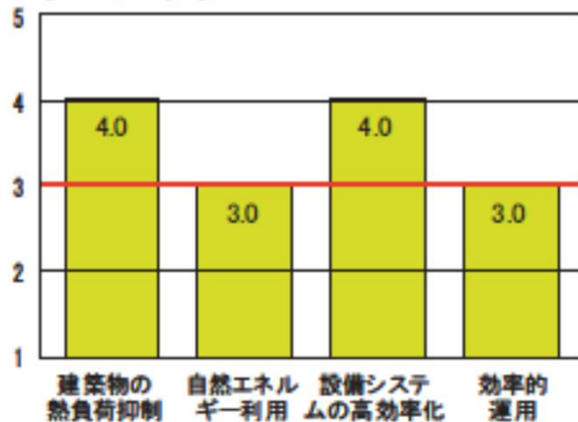
Q-3:室外環境(敷地内) $S_{Q3} = 3.9$



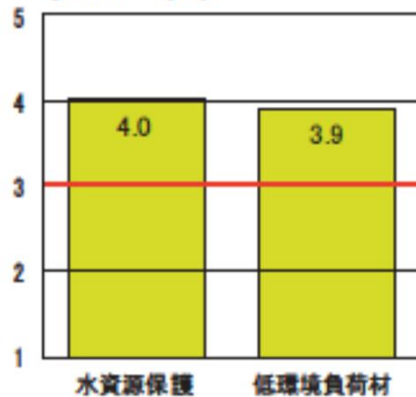
LR 建築物の環境負荷低減性 (建築物の環境負荷を低減させる性能評価)

$SLR = 3.5$

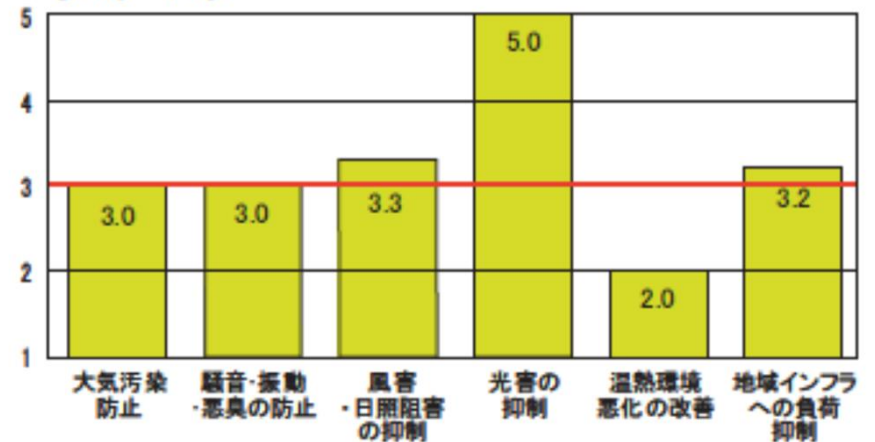
LR-1:エネルギー $SLR1 = 3.6$



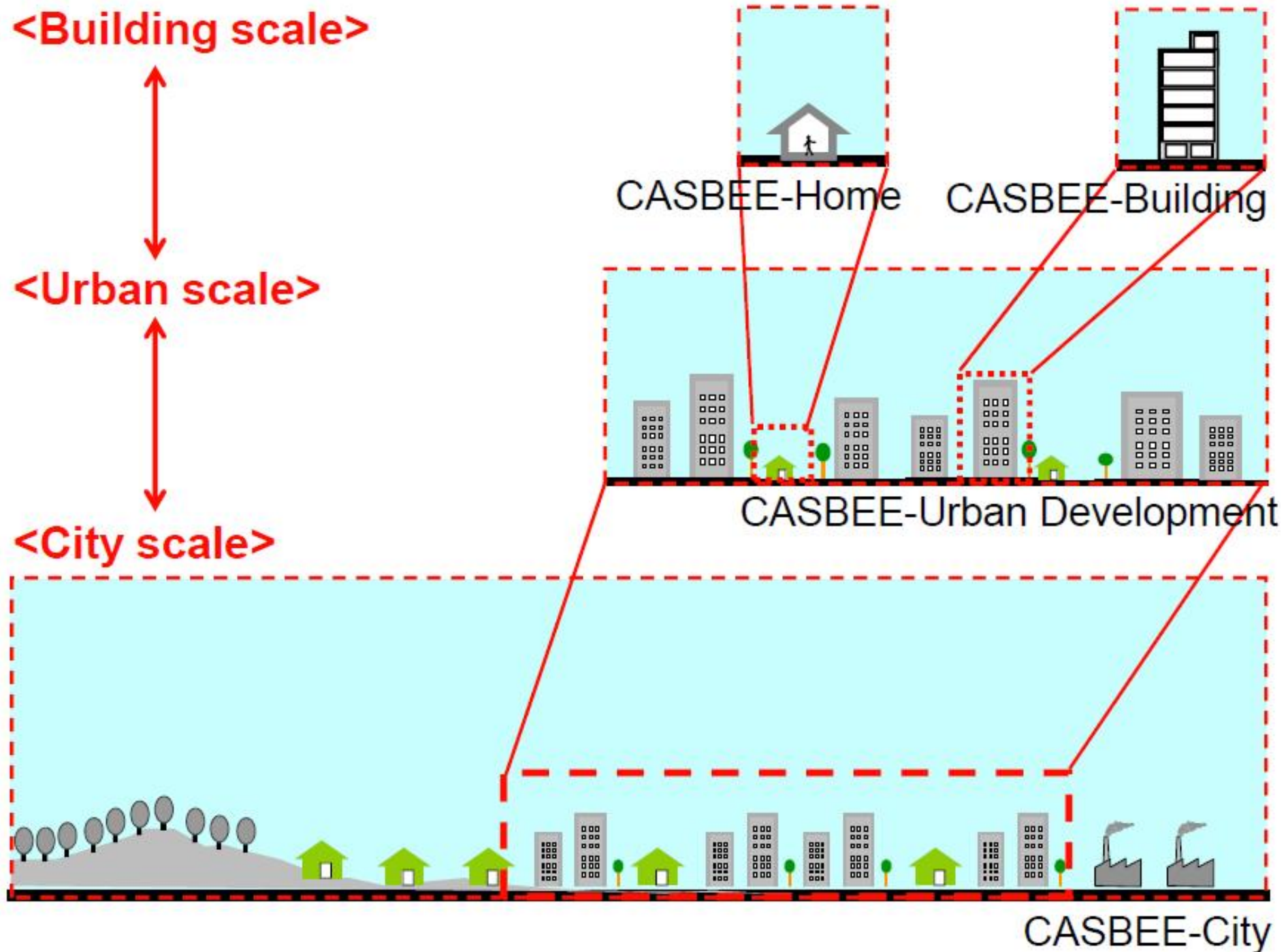
LR-2:資源・マテリアル $SLR2 = 3.9$



LR-3:敷地外環境 $SLR3 = 2.9$



CASBEE from Home/Building to City Scale



(Adapted from *CASBEE in Progress for Market Transformation in Japan*, by Prof. Kazuo Iwamura, Tokyo City University)



Green Mark Singapore

- **Green Mark (GM) Scheme, Singapore**

- Started 2005 (mandatory)

- http://bca.gov.sg/GreenMark/green_mark_criteria.html

- **Categories:**

- Non-Residential New Buildings
 - Residential New buildings
 - Existing Buildings
 - Office Interior
 - Landed Houses
 - Infrastructure
 - District



BCA GREEN MARK

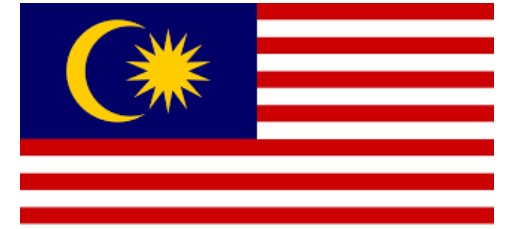


Green Mark Singapore

- **Green Mark (GM) Scheme, Singapore**
 - Assessment criteria
 - Energy Efficiency [79]
 - Water Efficiency [14]
 - Environmental Protection [32]
 - Indoor Environmental Quality [8]
 - Other Green Features and Innovation [7]
 - GM ratings: max 140 + 20 bonus points
 - Platinum (90+), GoldPlus (85-90), Gold (75-85) or Certified (50-75)
 - Re-assess every 3 years to maintain GM status

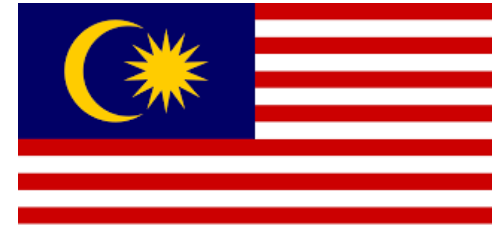


GBI Malaysia



- **Green Building Index (GBI), Malaysia**
 - Started 2009 (www.greenbuildingindex.org)
 - New Construction (NC)
 - Non-residential (NRNC) and residential (RNC)
 - Procedures:
 - Stage 1. Application & Registration
 - Stage 2. Design Assessment
 - Stage 3. Completion & Verification Assessment
 - GBI Accreditation Panel (GBIAP)
 - GBI Certifiers and GBI Facilitators

GBI Malaysia



- **Green Building Index (GBI), Malaysia**
 - Six main criteria: [max. point for new construction]
 - Energy Efficiency (**EE**) [35]
 - Indoor Environment Quality (**EQ**) [21]
 - Sustainable Site Planning & Management (**SM**) [16]
 - Materials & Resources (**MR**) [11]
 - Water Efficiency (**WE**) [10]
 - Innovation (**IN**) [7]
 - Total score = 100
 - GBI ratings: Certified (50-65), Silver (66-75), Gold (76-85) and Platinum (86+)



China

- Mainland China
 - GB/T 50378-2006, Evaluation Standard for Green Building (綠色建築評價標準)
 - Similar to LEED in structure and rating process
 - A three-star Green Building certificate will be awarded to the qualified buildings
 - Green Olympic Building Assessment System (GOBAS) (綠色奧運建築評核系統)
 - Developed from the Japan's CASBEE method
 - Applied mainly for Beijing Olympic Games in 2008





Evaluation Standard for Green Building – China (Three Star System)

		General Items (40)						Preference Options
	Grade	Land Use and Outdoor Environment (8)	Energy Efficiency (6)	Water Efficiency (6)	Material and Resources (7)	Indoor Environmental Quality (6)	Operation & Management (7)	(9)
Residential Building	★	4	2	3	3	2	4	-
	★★	5	3	4	4	3	5	3
	★★★	6	4	5	5	4	6	5
		General Items (43)						Preference Options
	Grade	Land use and outdoor environment (8)	Energy Efficiency (6)	Water Efficiency (6)	Material and Resources (8)	Indoor Environment Quality (6)	Operation & Management (7)	(14)
Public Building	★	3	4	3	5	3	4	-
	★★	4	6	4	6	4	5	6
	★★★	5	8	5	7	5	6	10

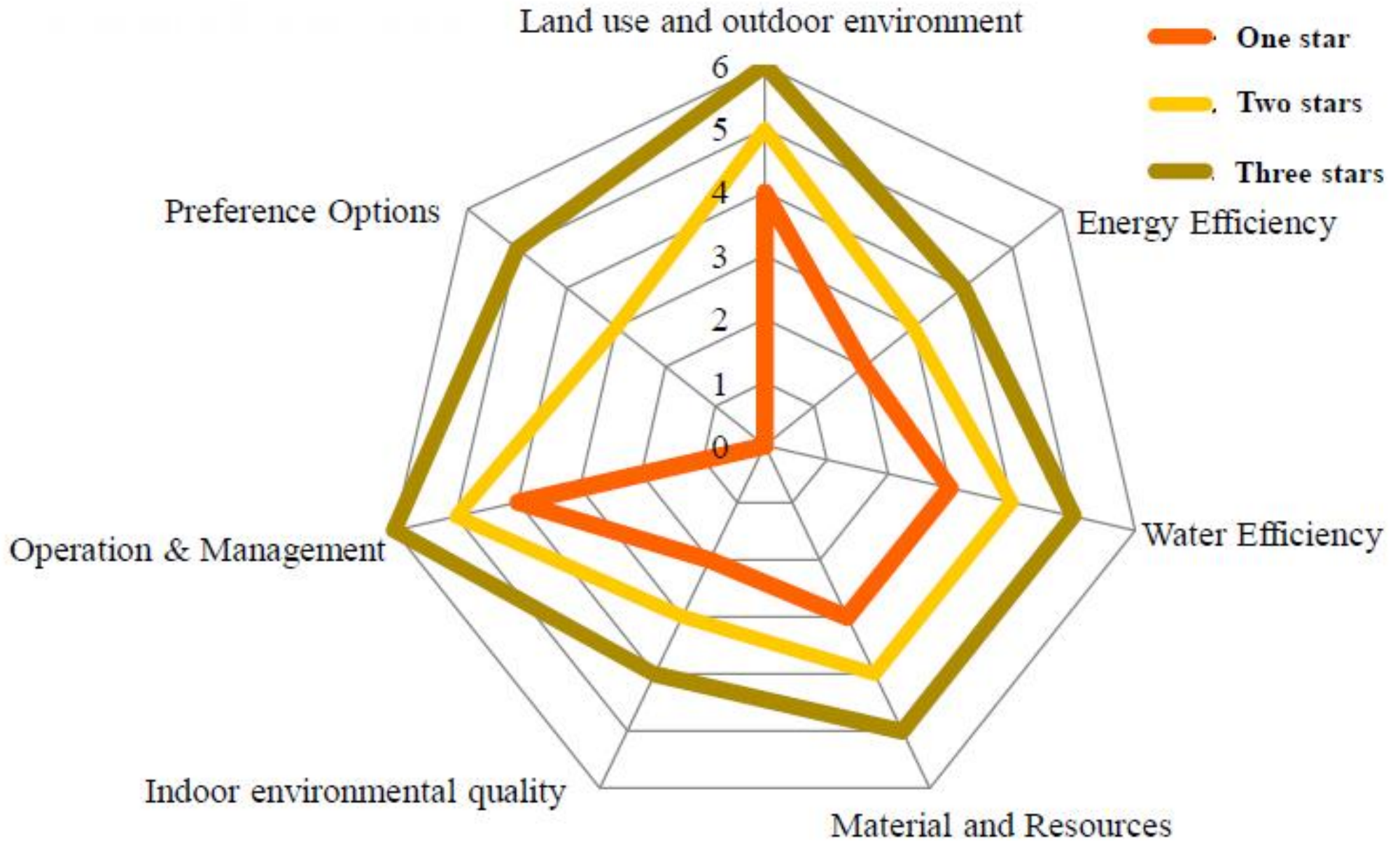
(See also: Trends in the application of China 3-star System 2008-2014 <http://www.chinagbc-macau.org/latest-news2.html>)

(Source: Dr. JIANG Wei, WSP)



Evaluation Standard for Green Building – China

Assessment categories and weighting





China

- Evaluation Standard for Green Building (Hong Kong version) 綠色建築評價標準(香港版)

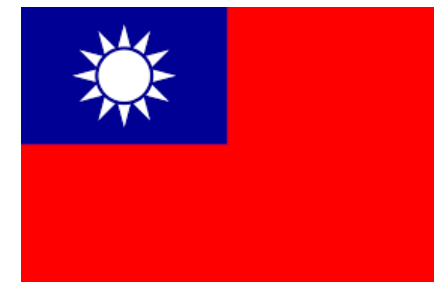
- Website: <http://www.cgbchk.org>
- CSUS/GBC 1-2010

- <http://www.csus-gbrc.org/gbrc/news/news/download/1304562387546.doc>

- Evaluation Standard for Green Building (Macau version) 綠色建築評價標準(澳門版)

- 2015 first edition
- Website: <http://www.chinagbc-macau.org>





Taiwan

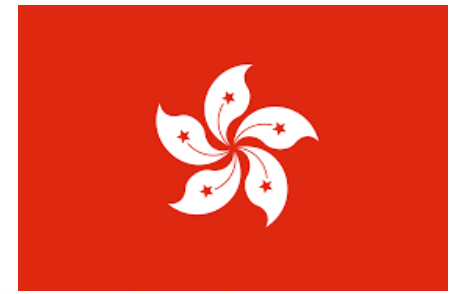
- Taiwan Green Building Label (EEWH)

- Nine sets of assessment criteria/indicators:

- E**cology 生態
 - 1. Biodiversity 生物多樣性
 - 2. Greenery 綠化量
 - 3. Water retention 基地保水
- E**nergy 節能
 - 4. Energy efficiency 日常節能
- W**aste reduction 減廢
 - 5. Carbon dioxide reduction CO₂減量
 - 6. Waste reduction 廢棄物減量
- H**ealth 健康
 - 7. Indoor environment 室內環境
 - 8. Water resources 水資源
 - 9. Wastewater and garbage 污水拉圾改善



Hong Kong

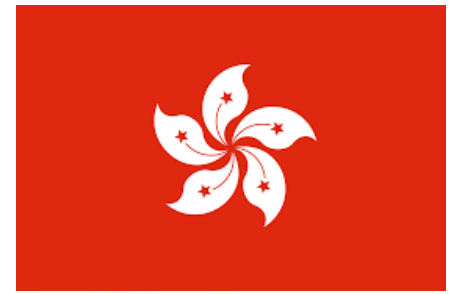


HONG KONG BUILDING ENVIRONMENTAL
ASSESSMENT METHOD

香港建築環境評估法

- HK-BEAM
 - Previous versions:
 - Version 1/96R - for new office designs
 - Version 2/96R - for existing office buildings
 - Version 3/99 - for new residential buildings
 - Hotel Building Environmental Assessment Scheme (HBEAS)
 - Issues covered:
 - Global issues & use of resources
 - Local issues
 - Indoor issues

Hong Kong

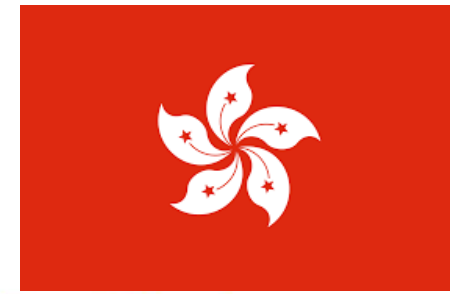


HONG KONG BUILDING ENVIRONMENTAL
ASSESSMENT METHOD

香港建築環境評估法

- HK-BEAM
 - Versions 2004:
 - HK-BEAM 4/04 New Buildings
 - HK-BEAM 5/04 Existing Building
 - Approach and criteria
 - Site aspects
 - Materials aspects
 - Energy use
 - Water use
 - Indoor environmental quality (IEQ)
 - Innovation & performance enhancements

Hong Kong



HONG KONG BUILDING ENVIRONMENTAL
ASSESSMENT METHOD

香港建築環境評估法

- **HK-BEAM**

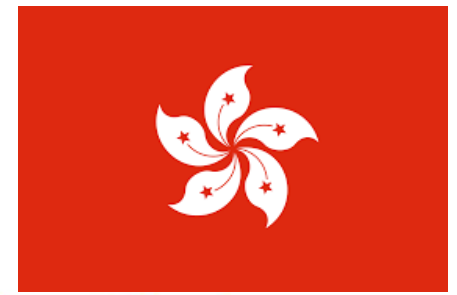
- Weighting system to reflect

- Relative importance of criteria
- Relative areas of the spaces

- Overall assessment grade (IEQ must meet min. %)

- | | | |
|------------|---------------------|--------------|
| • Platinum | 75% (Excellent) | min. IEQ 65% |
| • Gold | 65% (Very Good) | min. IEQ 55% |
| • Silver | 55% (Good) | min. IEQ 50% |
| • Bronze | 40% (Above average) | min. IEQ 40% |

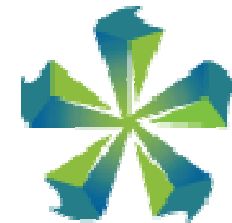
Hong Kong



- BEAM Plus development
 - Version 2009: (Nov 2009)
 - BEAM Plus for New Buildings
 - BEAM Plus for Existing Buildings
 - Version 1.1 (Apr 2010)
 - With minor refinements
 - Introduce BEAM Professionals
 - Version 1.2 (Jul 2012)
 - Addresses issues on passive design
 - Minor amendments to other aspects



BEAM Society
香港環保建築協會

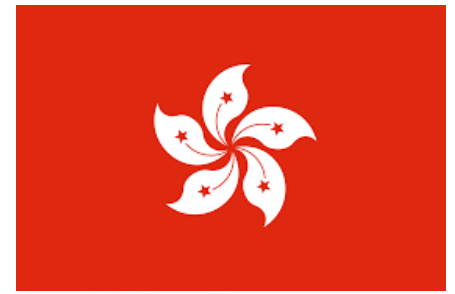


HKGBC
香港綠色建築議會



HKGBC
BEAM Plus
綠建環評

Hong Kong



- The BEAM Plus Family

- <http://www.hkgbc.org.hk/eng/BEAMPlus.aspx>



- Neighbourhood (ND): Masterplanning stage of building development projects



- New Buildings (NB): New building projects and major renovation/alteration works on existing buildings



- Existing Buildings (EB): Operation and maintenance performance of existing buildings

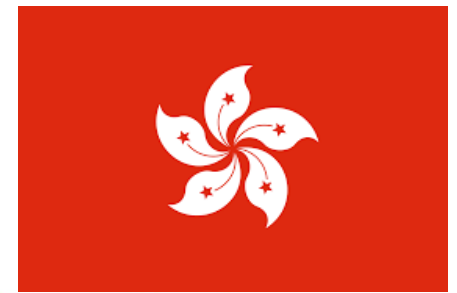


- Interiors (BI): Fit-out works of non-domestic premises

BEAM Plus assessment criteria [credits] [weighting]

New Buildings	Existing Buildings
Site aspects (SA) [22+3B] [25%]	Site aspects (SA) [18+1B] [18%]
Materials aspects (MA) [22+1B] [8%]	Materials aspects (MA) [11+2B] [12%]
Energy use (EU) [42+2B] [35%]	Energy use (EU) [39+2B] [30%]
Water use (WU) [9+1B] [12%]	Water use (WU) [7+2B] [15%]
Indoor environmental quality (IEQ) [32+3B] [20%]	Indoor environmental quality (IEQ) [30+3B] [25%]
Innovations and additions (IA) [5B+1]	Innovations and additions (IA) [5B+1]





Hong Kong

- BEAM Plus (Version 1.1 or 1.2)
 - Overall grade: (with min. for SA, EU and IEQ)

	Overall	Site Aspects	Energy Use	IEQ	Innov. & Addn.	
Platinum	75%	70%	70%	70%	3 credits	Excellent
Gold	65%	60%	60%	60%	2 credits	Very Good
Silver	55%	50%	50%	50%	1 credit	Good
Bronze	40%	40%	40%	40%	---	Above Average

Example of BEAM Plus weighting and grading

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	32



Site Aspects



Materials and Waste Aspects



Energy Aspects

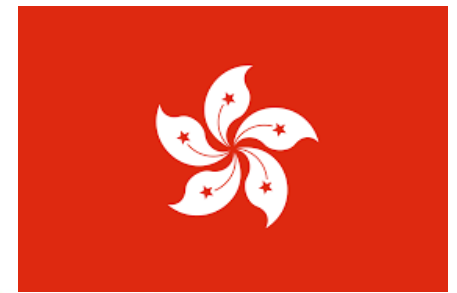


Water Aspects



Innovations and Additions

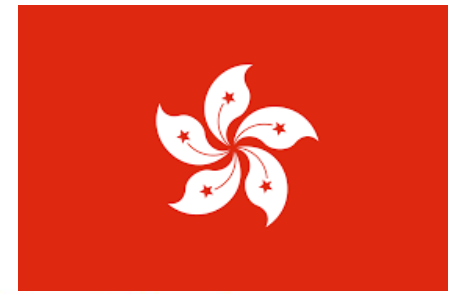
Hong Kong



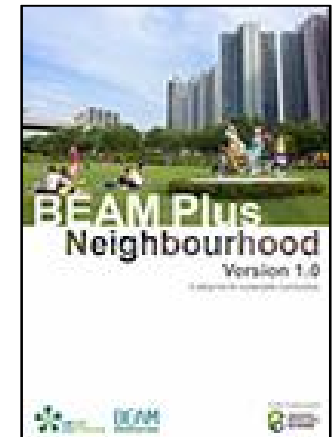
- BEAM Plus Interior (Aug 2013)
 - Used by occupants or tenants of new or existing buildings (fit-out, renovation and refurbishment)
 - Include 7 aspects:
 - Green Building Attributes (GBA) [8]
 - Management (MAN) [1p, 10]
 - Materials Aspects (MA) [3p, 26]
 - Energy Use (EU) [26]
 - Water Use (WU) [6]
 - Indoor Environmental Quality (IEQ) [24]
 - Innovations (IV) [10]

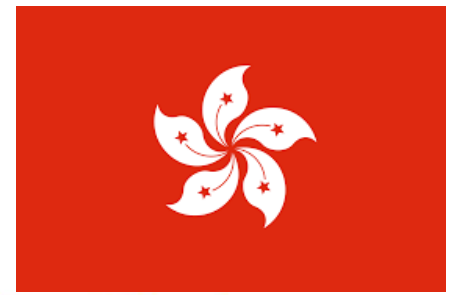


Hong Kong



- BEAM Plus Neighbourhood (pilot-testing)
 - For early inception or masterplanning stage of a development project (to assess urban sustainability)
 - Emphasis on space between buildings
 - Embrace socio-economic elements
 - Be a good neighbour
 - Consider two new aspects:
 - Community Aspects
 - Outdoor environmental quality

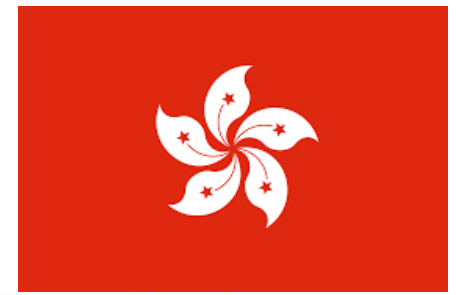




Hong Kong

- Uptake of BEAM Plus in Hong Kong:
 - New government buildings with floor area > 10,000 m² will aim to obtain the second highest grade or above under BEAM Plus or LEED
 - Buildings Department has included BEAM Plus on the Practice Notes on the wholesale conversion of industrial buildings, permitting the exemption of certain regulatory provisions
 - BEAM Plus certification is required as a prerequisite for gross floor area (GFA) concessions for certain green and amenity features

Hong Kong



- **BEAM Professionals (BEAM Pro)**

- Accredited by HK Green Building Council (HKGBC)
(www.hkgbc.org.hk)
- Facilitate BEAM Plus submission



- **BEAM Assessors (BAS)**

- Undertake the building assessment on behalf of HKGBC

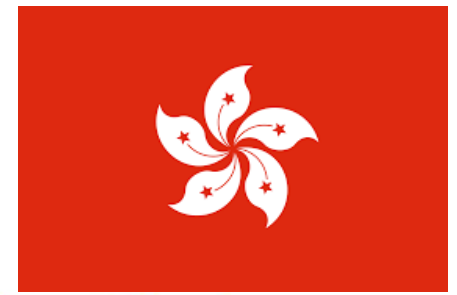
- **Green Building Faculty**

- Experienced professionals to drive BEAM Plus & BEAM Professionals development and training

- **BEAM Affiliate (BA)**

- Sub-professionals to support green building design, construction and operations





Hong Kong

- Useful information:
 - BEAM Plus Online Exhibition
 - <http://greenbuilding.hkgbc.org.hk/>
 - Statistics of BEAM Plus projects
 - <http://www.hkgbc.org.hk/eng/BEAMPlusStatistics.aspx>
- Latest developments
 - Version 2.0 of BEAM Plus NB and EB
 - BEAM Pro Specialty (starting from 1 Jan 2017)

