



# **GBI Professional Series on**

## **QS Practice Notes & Calculating Qualifying Expenditure**

15<sup>th</sup> Nov 2014



# Calculating QE for M&E Items

15<sup>th</sup> Nov 2014

Ir TL Chen GBIAP Co-Chair

# Template for Green Cost Submission

## **Qualifying Expenditure (QE) submission**

# OVERALL SUMMARY (document #1)

Project Name: XX Office Tower, Selangor  
 Owner's Name: YY Sdn Bhd  
 GBI Certification: NRNC GOLD  
 CCC date: 28 April 2011  
 Total Construction Cost: RM227,800,000  
 GFA (Cost/m<sup>2</sup>): 130,500m<sup>2</sup> (RM1,746)

No	GBI NRNC CRITERIA	Capital Expenditure without Green Cost RM	Capital Expenditure with Green Cost RM	Qualifying Expenditure RM
1	EE	5,068,900	12,581,300	7,512,400
2	EQ	1,000,400	3,452,700	2,452,300
3	SM	0	920,800	920,800
4	MR	0	0	0
5	WE	196,500	1,037,600	841,100
6	IN	7,400,000	15,939,400	8,539,400
<b>TOTAL</b>				<b>20,266,000</b>

We certify that this cost is in accordance with the terms of the GBI guidelines:

\_\_\_\_\_  
SR QQ

\_\_\_\_\_  
AR XX

\_\_\_\_\_  
IR M&E

# BREAKDOWN SUMMARY (document #2)

Item	Description	Criteria	Capital Cost without Green RM	Capital Cost with Green RM	Qualifying Expense RM	App
1	Energy Efficiency (EE)					
1.1	Sunshading Devices	EE1	0	492,400	492,400	A1
1.2	Low-e glazing	EE1	1,218,700	2,900,400	1,681,700	A1
1.3	Aerated Bricks	EE1	201,400	469,400	268,000	A1
1.4	BAS (incremental only)	EE1	0	1,440,800	1,440,800	A1
1.5	Photo & Motion Sensors	EE2	0	585,400	585,400	A1
1.6	Digital Power Meters	EE3	160,800	758,100	597,300	A2
1.7	Variable Speed Drives	EE5	0	1,277,800	1,277.800	A2
1.8	High EE Chillers	EE5	3,488,000	3,989,200	501,200	A2
1.9	Thermal Chw Plant Ctrl Sys	EE5	0	465,900	465,900	A2
1.10	High EE Motors for:					
	Chw pumps, CTs (incr only)	EE5	0	80,200	80,200	A2
	AHU (incremental only)	EE5	0	121,700	121,700	A2
	TOTAL C/F				7,512,400	

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# APPENDIX A1 (document #3)

Item	Description		Crit	Base Cost				Green Cost			BQ	QE
	Base	Green		Unit	Qty	@	Amt	Qty	@	Amt	ref	RM
1.1	Nil	Perforated Sheet for sun shade	EE1	-	-	-	-	860	460	395600	LA: 3	395600
1.1a	Nil	Hori Fin	EE1	-	-	-	-	242	400	96800	LA: 3	96800
Sub-total for Item 1.1 – Shading Devices											<b>492400</b>	
1.2	9.38 Laminated Clear Glass	9.38 Laminated low-e glass	EE1	m2	7283	161	1172563	7283	376	2738408	LA: 4	1565845
1.2a	9.38 Laminated Clear Glass	9.38 Laminate low-e with ceramic frit	EE1	m2	265	161	42787	265	598	158642	VO 5	115855
Sub-total for Item 1.2 – Low-e Glazing											<b>1681700</b>	

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## **GBI Tax Exemption**

**M&E Costs, Innovation & Certification  
by Ar, Ir and Sr**

# GBI Tax Exemption

1. What are the eligible Green Cost items ?

# GBI Green Cost Items

Part	Criteria	Description
1.1	<b>EE</b>	<b>Energy Efficiency</b>
	EE1	Sun shading devices including automatic controls
	EE1	Sandwich walls; Additional insulation
	EE1	Roof insulation
	EE1	Wall insulation
	EE1	Cavity brick walls
	EE1	Low-E glass of various thickness
	EE1	Double glazing of various thickness
	EE1	Energy Management System

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.1	<b>EE</b>	<b>Energy Efficiency</b>
	<b>EE2</b>	<b>Daylight auto sensor devices for lighting control</b>
	<b>EE2</b>	<b>Motion sensor devices for lighting control</b>
	<b>EE3</b>	<b>Electrical sub-meters for EE monitoring</b>
	<b>EE4</b>	<b>RE such as Fuel Cells, Biomass, Hydro, Wind, Geothermal etc</b>
	<b>EE4</b>	<b>BIPVs and PVs</b>
	<b>EE4</b>	<b>Solar powered application viz STC</b>
	<b>EE5</b>	<b>EE HVAC Equipment</b>
	<b>EE5</b>	<b>Enhanced HVAC systems such as TES, DCS, Cogen etc</b>

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.1	<b>EE</b>	<b>Energy Efficiency</b>
	<b>EE5</b>	<b>Enhanced HVAC technologies/ strategies e.g. UFAD, chilled slabs/ ceilings, Active/ Passive chilled beams, etc</b>
	<b>EE5</b>	<b>High Performance Glazing/ Walls</b>
	<b>EE5</b>	<b>EMS integrated to enhance EE Performance</b>
	<b>EE5</b>	<b>EE light fixtures including LEDs</b>
	<b>EE5</b>	<b>Heat Pumps, Heat Machines</b>
	<b>EE5</b>	<b>Gas/ Solar Water Heaters</b>
	<b>EE5</b>	<b>Geothermal Heating/ Cooling</b>

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.1	EE	Energy Efficiency
	EE5	Hot Water Heat Reclaim System e.g. Desuperheater System
	EE5	Variable Speed Drives
	EE5	High Efficiency Motors

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.2	<b>EQ</b>	<b>Indoor Environmental Quality</b>
	<b>EQ3</b>	<b>CO2 Monitoring &amp; controls for EE &amp; IAQ</b>
	<b>EQ4</b>	<b>Low VOC products</b>
	<b>EQ6</b>	<b>Additional controls and devices to enhance thermal controllability, e.g. VAV terminals, thermostats, sensors</b>
	<b>EQ7</b>	<b>UFAD system, Dedicated work-station air supply system, Low Level Displacement system</b>
	<b>EQ8</b>	<b>Light Shelves for Daylight Harvesting</b>



# GBI Green Cost Items cont'd

Part	Criteria	Description
1.2	<b>EQ</b>	<b>Indoor Environmental Quality</b>
	<b>EQ8</b>	<b>Double Skin Façade, Low Emissivity Glass, IGU, High Performance Glazing</b>
	<b>EQ9</b>	<b>Automated blind control, double glazing with sandwiched blinds, automated louvres</b>
	<b>EQ11</b>	<b>High Frequency Ballasts and Luminaries</b>
	<b>EQ13</b>	<b>Acoustic ceilings and internal partition/ wall insulation</b>
	<b>EQ14</b>	<b>Permanent air flushing system</b>

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.3	<b>SM</b>	<b>Sustainable Site Planning &amp; Management</b>
	<b>SM2</b>	<b>Decontamination costs</b>
	<b>SM4</b>	<b>Restoration or protection of existing native cultivars</b>
	<b>SM9</b>	<b>Costs incurred in reserving carparks for green/hybrid vehicles, e.g. additional signages, line marking, etc</b>
	<b>SM12</b>	<b>Green Roof</b>
	<b>SM12</b>	<b>High Albedo Paint (Paint with suitable SRI) to obviate heat island effect</b>
	<b>SM12</b>	<b>Green Walls</b>
	<b>SM12</b>	<b>Pervious Pavers/ Open Grid Pavers</b>

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.4	<b>MR</b>	<b>Material &amp; Resources</b>
	<b>MR1</b>	<b>Reused materials</b>
	<b>MR2</b>	<b>Materials with Recycled Content that qualifies for GBI points</b>
	<b>MR3</b>	<b>Regional materials if proven cost is more than alternatives</b>
	<b>MR4</b>	<b>Sustainable timber</b>
	<b>MR5</b>	<b>Provision of Recycling Facilities/ bins/ balers; and signages</b>
	<b>MR6</b>	<b>Costs incurred in sorting during construction</b>
	<b>MR7</b>	<b>HVAC equipment using zero ODP refrigerants and clean agents for fire fighting system</b>

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.4	MR	Material & Resources
	MR7	HVAC equipment using natural refrigerants and natural gas clean agents for fire fighting system

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.5	WE	Water Efficiency
	WE1	Rainwater Harvesting System
	WE2	Black Water Recycling System
	WE2	Grey Water Recycling System
	WE3	Water Efficient Fixtures & Flow Restrictors, automatic rain sensors and devices
	WE4	Waterless Urinals or Low Flushing fixtures
	WE5	Water sub-meters and monitoring points

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.6	IN	Innovation
	IN1	Solar Thermal Technology e.g. STC
	IN1	Solar Light/ Tube Systems
	IN1	Heat Pipe Technology
	IN1	Heat Recovery System e.g. Heat Wheels
	IN1	Regenerative Lifts and Sensor Controlled Escalators
	IN1	Non-Chemical Cooling Tower Water Treatment System
	IN1	Auto-condenser tube cleaning system
	IN1	Advance Air Filtration technology

# GBI Green Cost Items cont'd

Part	Criteria	Description
1.6	IN	Innovation
	IN1	Central Pneumatic Waste Collection System
	IN1	Central Vacuum System
	IN1	Refrigerant leakage and recycling facilities
	IN1	Condensate Water Harvesting
	IN1	Recovery of Fire Testing water
	IN1	Active Facade

# GBI Tax Exemption

1. What are the eligible Green Cost items ?
2. What are the eligible M&E items ?
3. What is the base reference cost ?
4. What constitute Innovation items ?



# GBI Green Cost M&E Items

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
AC System	EE4,5; MR7; IN1	Total Plant <u>System</u> incorporating TES, Chilled Slab/ Ceiling, STC, Cogen	Total <u>System</u> Cost Water-cooled CHW plant with CAV Air Distribution System	Incremental cost to be based on entire plant system. If claim is on this item then not eligible for separate similar ac equipment claim

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
Air Distrib System	EE5; EQ6,7	VAV, UFAD, LLD, Active/ Passive Beams	CAV System	Incremental cost to be based on entire air distribution system. If claim is on this item then not eligible for separate similar component claim

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
Cooling Plant/ Eqpt	EE5	DX ACPU and WCPU	Minimum COP in MS 1525	Compare 'Like with Like' eqpt; e.g. WCPU to WCPU
	EE5; MR7	Absorption Chiller	Electric Chiller with min. COP in MS 1525	
	EE5; MR7	Chiller/ Unitary AC using 'Zero ODP'/ 'Natural' refrigerant	Min. COP in MS 1525	Compare 'Like with Like'

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
Other Eqpts & Accessories	EE1	Energy Management System	Basic EMS installation	100% claimable if ac space < 4000 sqm. Otherwise, only the additional cost apply
	EE5	VSD	Nil	100% claimable
	EQ3	CO2 Sensor & Monitoring	Nil	100% claimable
	IN1	Heat Pipes	Nil	100% claimable
	IN1	Heat Recovery Wheels	Nil	100% claimable

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
Other Eqpts & Accessories	IN1	Non-Chemical Cooling Tower Water Treatment System	Conventional Chemical Water Treatment System	
	IN1	Refrigerant Leakage Detection & Recycling Facility	Nil	100% claimable
	IN1	Advance Air Filtration Technology	Conventional Washable Air Filters	
	IN1	Auto-condenser tube cleaning system	Nil	100% claimable

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
ACMV				
Mech Ventn	EQ14	Permanent Air Flushing System	Smoke Spill System	100% claimable if Smoke Spill System is not required by Bomba

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Electrical System				
Lighting	EE5	T5/T16, LED	T8/T26	LED to be of better efficacy & for correct application
	EE5	CFL, LED	Halogen/ Incandescent Equivalent	LED to be of better efficacy & for correct application
	EE5; IN1	Solar Powered Light	Equiv electric lamp	
	EQ11	Electronic Ballasts	Electromagnetic Ballasts (6W)	
	EE5; IN1	LED for Façade & External applications	Equiv PAR or HID Lamps	LED to be of better efficacy & for correct application

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Electrical System				
Others	EE2	Occupancy/ Motion Sensors	Nil	100% claimable
	EE2	Photo Sensors	Nil	100% claimable
	EE3	Electric Sub- metering	Base sub- metering	Cost of additional EE monitoring meters
	EE4	PVs	Nil	100% claimable
	EE4	BIPVs	Base roofing	
	EE4	Other RE devices	Nil	100% claimable
	IN1	Solar Light Pipes/ Tubes	Nil	100% claimable



# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Elevators & Escalators				
Lifts	EE5	ACVVVF Gearless Lifts	ACVVVF Geared Lifts	Applicable only if Geared Lifts are available for the installed speed & capacity
	EE5; IN1	Regenerative Lifts/ Variable Speed Lifts or Equiv	ACVVVF Geared Lifts	If Geared Lifts are not available for the installed speed & capacity then Gearless apply
Escalators	EE5	Variable Speed/ Auto Start Stop or Equiv Escalators	Single Speed Escalators	

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Hydraulics System				
Plumbing System	WE1	Rainwater Harvesting System	Nil	100% claimable
	WE2	Grey Water Recycling Sys	Nil	100% claimable
	WE2	Black Water Recycling Sys	Nil	100% claimable
	WE3	WE Irrigation System	Conventional Base Design	
	WE5	Water Sub-metering	Nil	100% claimable

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Hydraulics System				
Plumbing System	EE5	Gas Instantaneous Water Heater	Electric Instantaneous Water Heater	
	EE5	Electric Heat Pump/ Machine Hot Water System	Electric Storage Hot Water System	
	EE5	Hot Water Heat Reclaim System	Electric Storage Hot Water System	
	EE5	Solar Hot Water System	Electric Storage Hot Water System	

# GBI Green Cost M&E Items cont'd

Service	Criteria	Green Item	Ref Base Cost	Remarks
Others & Innovations				
Motors	EE5	Eff1/EC3 Motors	Standard Motors	
Innovation	IN1	Central Vacuum System	Nil	100% claimable
	IN1	Central Pneumatic Waste System	Nil	100% claimable
	IN1	Condensate Water Harvesting	Base Condensate Water Piping	Associated Additional Cost
	IN1	Recycled Fire System Piping	Nil	100% claimable

# GBI Green Cost M&E Items cont'd

## **NOTE:**

This list is not exhaustive and will be updated from time to time

# GBI Tax Exemption

1. What are the eligible Green Cost items ?
2. What are the eligible M&E items ?
3. What is the base reference cost ?
4. What constitute Innovation items ?
5. Who is authorized to verify and/or certify these costs ?
6. How is this claim made from the government ?

# FAQ14

## GBI Qualifying Expenditure for Green Cost Rebate Signatories for submission to GBI

Cost Category	RNC / NRNC	INC	NREB <sup>1</sup>	NREB <sup>2</sup>	NREB <sup>3</sup>	NREB <sup>4</sup>	NREB <sup>5</sup>	NREB <sup>6</sup>	IEB <sup>1</sup>	IEB <sup>2</sup>	IEB <sup>3</sup>	IEB <sup>4</sup>	IEB <sup>5</sup>	IEB <sup>6</sup>
Overall Submission	Ar	Ar or Ir ( C )	Ar	Ar	Sr	Ir ( C )	Ir (M or E)	X	Ar or Ir ( C )	Ar or Ir ( C )	Ir ( C )	Ir ( C )	Ir (M or E)	X
All cost except for M&E items	Sr	Sr	Sr	Ar	Sr	Ir ( C )	Ir (M or E)	X	Sr	Ar or Ir ( C )	Sr	Ir ( C )	Ir (M or E)	X
Cost for M&E items	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	X	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	Ir (M or E)	X

### Legend:

Ar denotes a Professional Architect registered with Lembaga Arkitek Malaysia and practising through an Architectural Consultancy Practice

Ir denotes a Professional Engineer registered with Lembaga Jurutera Malaysia and practising through an Engineering Consultancy Practice

Ir (M or E, C) denotes Professional Engineer of Mechanical or Electrical, or Civil discipline

Sr denotes a Professional Quantity Surveyor registered with Lembaga Juruukur Bahan Malaysia and practising through a QS Consultancy Practice

<sup>1</sup> denotes the full compliment of consultants are engaged for the retrofit building

<sup>2</sup> denotes only Ar, Ir ( C ) and Ir (M&E) are engaged for the retrofit building

<sup>3</sup> denotes only Sr, Ir ( C ) and Ir (M&E) are engaged for the retrofit building

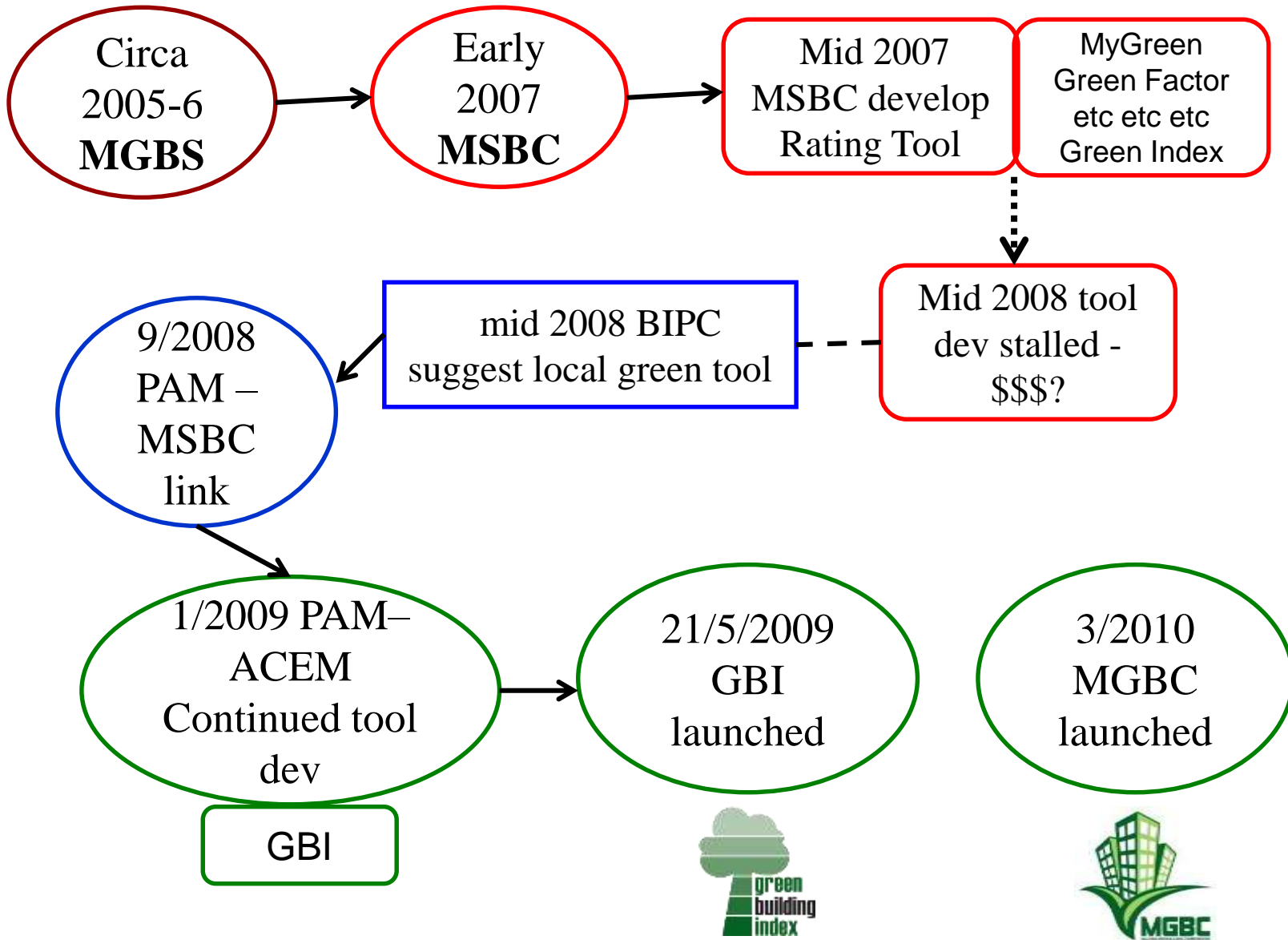
<sup>4</sup> denotes only Ir ( C ) and Ir (M&E) are engaged for the retrofit building

<sup>5</sup> denotes only Ir (M&E) are engaged for the retrofit building

<sup>6</sup> denotes only one discipline of Professional (denoted as X i.e. Ar or Sr or Ir <of any discipline>) is engaged for the retrofit building

# **The GBI Story**





**LEMBAGA AKITEK MALAYSIA  
LEMBAGA JURUTERA MALAYSIA**

**GBI**



**PAM + ACEM**



**GREENBUILDINGINDEX SDN BHD**

**GBI ACCREDITATION PANEL**




# NON-RESIDENTIAL BUILDINGS

Rating Tools	Energy Effy	IEQ	Sustainable Site	Materials & Resources	Water Effy	Innovation
<b>BREEAM 2008</b>	<b>19%</b>	<b>*13%</b>	<b>*37%</b>	<b>*17%</b>	<b>5%</b>	<b>*9%</b>
<b>LEED v2.2</b>	<b>25%</b>	<b>22%</b>	<b>20%</b>	<b>19%</b>	<b>7%</b>	<b>7%</b>
<b>Green Mark v3</b>	<b>62%</b>	<b>5%</b>	<b>*20%</b>		<b>9%</b>	<b>4%</b>
<b>Green Star v3</b>	<b>20%</b>	<b>19%</b>	<b>*33%</b>	<b>16%</b>	<b>8%</b>	<b>4%</b>
<b>GBI v1.0</b>	<b>35%</b>	<b>21%</b>	<b>16%</b>	<b>11%</b>	<b>10%</b>	<b>7%</b>
<b>LEED v3</b>	<b>35%</b>	<b>15%</b>	<b>26%</b>	<b>14%</b>	<b>10%</b>	<b>*10%</b>

\* Denotes adjusted or amalgamated figures

Criteria	Malaysia GBI	USA LEED	Singapore Greenmark	Indonesia GreenShip	UK BREEAM	Hong Kong BEAM	Japan CASBEE	Germany DGNB-Seal	Australia Green Star	France HQE	Canada/USA Green Globes	Italy ITACA
Energy	X	X	X	X	X	X	X	X	X	X	X	X
CO2					X			X		X	X	X
Ecology	X	X	X		X	X	X	X	X	X	X	X
Economy	X							X		?	X	?
Health and Wellbeing	X				X	X	X	X	X	X	X	?
Indoor Environmental Quality	X	X	X	X	X	X	X	X	X	X	X	?
Innovation	X	X			X	X		?	X	?		?
Land Use	X	X		X	X	X		?	X	X	X	?
Management	X		X	X	X	X	X	?	X	?		?
Materials	X		X	X	X	X	X	X	X	?	X	X
Pollution	X	X	X	X	X	X	X	X	X	X	X	?
Renewable Energy	X	X	X	X	X			?	X	?	X	X
Transport	X	X	X	X	X	X		X	X	?	X	?
Waste	X		X	X	X	X		?		X	X	X
Water	X	X	X	X	X	X	X	X	X	X	X	X
Rating Classifications	Platinum Gold Silver Certified	Platinum Gold Silver Certified	Platinum Gold Plus Gold Certified	Platinum Gold Silver Certified	Excellent Very Good Good Pass	Platinum Gold Silver Bronze	3.0(Class S) 1.5(Class A) 1.0(Class B+) 0.5(Class B-)	Gold Silver Bronze	6 Star 5 Star 4 Star	High Performance Performance Base	4 Globe 3 Globe 2 Globe 1 Globe	-1 to 5 with 0 as base

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Notes:  
1. Sourced and Modified from King Sturge (2009).4  
2. Data for DGNB-Seal, HQE, and Protocol ITACA is not exhaustive and additional criteria may be included in the assessment.

## A Broad Comparison of Rating Tools

# **Facts and Fiction about GBI**

Myth No.1: GBI serves to enrich the individuals who own it as a registered Sendirian Berhad (Greenbuildingindex Sdn Bhd).

Myth No.2: Very high and expensive GBI registration, accreditation and certification fees

Myth No.3: Obtaining GBI certification can cost 20 to 30% more.

Myth No.4: GBI certification is very difficult to achieve

Myth No.5: GBI Qualifying Green Cost approval is very difficult to obtain

Myth No.6: Green Building Index is not as good as other rating tools

Myth No.7: Green Building Index is not internationally recognised, it is widely used only in Malaysia

**Sunday 15 June 2014**  
**Starproperty article**  
**by Dr Daniele Gambero**

**A misrepresentation ?**  
**OR**  
**An orchestrated lie !**

# AWARD CLASSIFICATION COMPARISON BETWEEN GBI & GreenRE (%)

**As misrepresented by Dr Daniele Gambero in Sunday 15 June 2014 Starproperty**

Percentage score	0 - 49%	50%	55%	60%	65%	66%	70%	75%	76%	80%	85%	86%	90%	95%	100%
<b>GBI</b>	No	Certified				Silver			Gold			Platinum			
<b>GreenRE</b>	No	Bronze							Silver			Gold	Platinum		

THE TRUTH																					
	0 - 26%	27%	30%	32%	41%	46%	48%	49%	50%	52%	54%	55%	58%	65%	66%	75%	76%	85%	86%	90%	100%
<b>GBI</b>	No								Certified					Silver	Gold	Platinum					
<b>GreenRE New Residential</b>	No			Bronze			Silver			Gold		Platinum									
<b>GreenRE New Non-Residential</b>	No		Bronze			Silver			Gold		Platinum										
<b>GreenRE Existing Non-Residential</b>	No	Bronze		Silver	Gold	Platinum															



**THE TRUTH**

	0 - 26%	27%	30%	32%	41%	46%	48%	49%	50%	52%	54%	55%	58%	65%	66%	75%	76%	85%	86%	90%	100%
<b>GBI</b>	No								Certified				Silver	Gold	Platinum						
<b>GreenRE New Residential</b>	No			Bronze			Silver			Gold		Platinum									
<b>GreenRE New Non-Residential</b>	No		Bronze			Silver			Gold		Platinum										
<b>GreenRE Existing Non-Residential</b>	No	Bronze		Silver	Gold	Platinum															

<b>Percentage score</b>	0 - 49%	50%	55%	60%	65%	66%	70%	75%	76%	80%	85%	86%	90%	95%	100%
<b>GBI points score</b>	0 - 49	50	55	60	65	66	70	75	76	80	85	86	90	95	100

**GreenRE points score**

<b>GreenRE New Residential</b>	0 - 77	78	86	94	101		109	117		125	133		140	148	156
<b>GreenRE New Non-Residential</b>	0 - 81	82	90	98	107		115	123		131	139		148	156	164
<b>GreenRE Existing Non-Residential</b>	0 - 91	92	101	110	120		129	138		147	156		166	175	184

**Available points = 158**

**Available points = 206**

**Available points = 184**

<b>GreenRE Classification in points</b>	<b>Points</b>
Platinum	≥90
Gold	85 to <90
Silver	75 to <85
Bronze	50 to <75

<b>GBI Classification in points</b>	<b>Points</b>
Platinum	86 to 100
Gold	76 to 85
Silver	66 to 75
Certified	50 to 65



**THANK YOU**

