




"Better Places for People"

Green Tools Galore
'staying ahead with GBI'

Ir CHEN Thiam Leong DL&F.ASHRAE
FIEM, FIFireE, P.Eng. C.Eng.





Synopsis

What is the latest count on the number of Green Rating tools in the market?

How many of these are developed for sustainability and how many otherwise?

Find out how GBI choose to embark on "staying ahead" simply by not compromising on its sustainability principles

- ### Green Rating Tools Worldwide
- How many countries are there in the world?
 - How many countries have their own GB tool?
 - Which country has developed the most number of their own GB tools and how many?
 - Which country subscribes to the most number of GB tools and how many?

Established WGBC members

Country	Tool	Owner	Promoter
Argentina	LEED		AGBC
Austria	TQB	ASBC	ASBC
Canada	LEED		CaGBC
Colombia	LEED		CCCS
Croatia	LEED, BREEAM, DGNB		CGBC
Netherlands	BREEAM		DGBC
UAE	Pearl	ESGBC	ESGBC
France	HQE	HQE	FGBC
Germany	DGNB	DGNB	DGNB
Australia	Green Star	GBCA	GBCA
Brazil	LEED		GBCB
Spain	LEED		GBCE
South Africa	Green Star SA	GBCSA	GBCSA
Hong Kong	BEAM	HKGBC	HKGBC

Established WGBC members

Country	Tool	Owner	Promoter
India	IGCB&LEED-I, GRIHA	IGBC, TERI	IGBC, TERI
Japan	CASBEE	JaGBC	JaGBC/JSBC
Jordan	ISWA etc	ISWA etc	JGBC
Malaysia	GBI	PAM-ACEM	MGBC
New Zealand	Green Star	NZGBC	NZGBC
Peru	LEED		PGBC
Poland	LEED, BREEAM		PLGBC
Singapore	Green Mark	BCA	SGBC
Sweden	LEED		SGBC
Chinese Taipeh	EEWH	TGBC	TGBC
Turkey	LEED, BREEAM		TGBC
UK	BREEAM	BRE	UKGBC
USA	LEED	USGBC	USGBC

Criteria	Malaysia GBI	USA LEED	Singapore Greenmark	Indonesia GreenStar	UK BREEAM	Hong Kong BEAM	Japan CASBEE	Germany DGNB-Star	Australia Green Star	France HQE	Canada GBA Green Globe	Italy ITACA
Energy	X	X	X	X	X	X	X	X	X	X	X	X
CO2					X			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 Environment of 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	X	X
Water	X	X	X	X	X	X	X	X	X	X	X	X
Rating Classification #	Platinum Gold Silver Certified	Platinum Gold Gold Plus Gold Certified	Platinum Gold Plus Gold Certified	Platinum Gold Silver Certified	Excellent Very Good Good Pass	Platinum Gold Silver Bronze	3.0(Class S) 2.0(Class A) 1.0(Class B-1) 0.5(Class B-2)	Gold Silver Bronze	6 Star 5 Star 4 Star	High Performance 2 Globe Base	4 Globe 2 Globe 1 Globe	-1 to 5 with 1 as Base

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

A Broad Comparison of Rating Tools

Selected Countries with multiple GB tools				
Country	Main Tool	GBC	WGBC status	Minor Tools
USA	LEED	USGBC	Established	Green Globes
Canada	LEED	CaGBC	Established	Green Globes
Australia	Green Star	GBCA	Established	Nabers
Japan	CASBEE	JSBC	Established	LEED
Singapore	Greenmark	SGBC (BCA)	Established	LEED
Malaysia	GBI	MGBC	Established	LEED, GM, Green Globes, pH, MyCrest, Melaka Green Seal, GreenRE, GreenPass, MyGHI, LCCF
Indonesia	Greenship	GBCI	Emerging	LEED, GM
India	IGBC	IGBC	Established	GRIHA, LEED(India)
Hong Kong	BEAM	HKGBC	Established	LEED, BREEAM

- STAYING AHEAD:**
- 100 points for 100%
 - Sustainable Maintenance
 - MDL aka Demand Response
 - Validity Period of 3 years
 - Performance Verification for EE & EQ
 - Maintaining high std and relevancy
 - Transparency & Professionalism in certification
 - Developed as a Gift to the society and not as a business or for convenience
 - Introduce and train CxS
 - Energy Star Rating
 - Fulfil missing links for government
 - Pursue extension of green cost tax exemption until green becomes the norm

When 100% is not 100 points!

Main stream media the Starproperty Sunday 15 June 2014

% Score	0 - 49	50 - 65	66 - 74	75	76 - 84	85	86 - 89	90 - 100
GBI	no rating	Certified	Silver		Gold			Platinum
GreenRE	no rating	Bronze	Silver		Gold			Platinum

GBI Classification	Points Score	GreenRE Classification	Points Score	Total Points
Platinum	86 - 100	Platinum	≥ 90	156 - 184
Gold	76 - 85	Gold	85 - 89	Available Points
Silver	66 - 75	Silver	75 - 84	
Certified	50 - 65	Certified	50 - 74	158 - 206

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

% score	0 - 49	50	52	54	56	58	65	66	70	75	76	80	85	86	90	95	100
GBI	No Rating		Certified						Silver			Gold					Platinum
GreenRE	No Rating			Bronze										Silver	G		Platinum

THE TRUTH GBI: 100% = 100 points GreenRE: 100% = More than 100 points = 166 to 206 points!

% score	0 - 49	50	52	54	56	58	65	66	70	75	76	80	85	86	90	95	100
GBI (std score)	No Rating		Certified						Silver			Gold					Platinum
GreenRE NRNC	No	Bronze		Silver													Platinum (55% - 100%)
GreenRE RNC	No	Bronze		Silver	G												Platinum (49% - 100%)

% score	0 - 49	50	52	54	56	58	65	66	70	75	76	80	85	86	90	95	100												
GreenRE points																													
GreenRE NRNC	43	44	50	52	67	75	75	82	86	88	90	98	107	108	115	123	125	131	139	141	148	151	154	156	158	166	171	184	206
GreenRE NREB	49	50	55	59	75	85	85	90	99	99	101	106	120	121	129	138	140	147	156	158	166	171	184	184	184	184	184	184	206
GreenRE RNC	41	42	47	50	64	72	75	76	78	81	84	86	90	101	103	109	117	119	125	133	134	140	148	156	158	166	171	184	158

90 / 184 pts = 49% = PLATINUM

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 - Transparency & Professionalism in certification
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 - Introduce and train CxS ... and transforming the BAS industry
 - Energy Star Rating - effective Jan 2016 .. setting benchmarks
 - Fulfil missing links for government
 - Pursue extension of green cost tax exemption until green becomes the norm

- How Green Tools can help drive (or promote) national agendas - the GBI example**
- EE bylaw 38A in the UBBL achieved in Dec 2012 - an exercise the government embarked on in 2001 but stalled over 10 years.
 - GBI on 1/7/14 made EE1 the only mandatory criteria to support self regulation of this bylaw
 - Rainwater Harvesting:
 - incorporated into UBBL since 2010 but not effectively enforced or promoted
 - DBKL's MSMA requirement of 30% of storm water retention for RWH
 - GBI has accelerated this sustainable habit including Waste Water Recycling.

GBI Certified Buildings awarded credit point for WE1 and WE2 as at 17 June 2015

Credit Point for WE1 (Rainwater Harvesting)

State	Building Types					TOTAL PROJECTS WITH WE1 SCORE	TOTAL CERTIFIED PROJECTS (excl townships)
	Non-Residential		Residential		Industrial		
	NEW	EXISTING	NEW	NEW	EXISTING		
Kuala Lumpur	25	1	36	0	0	64	107
Selangor	38	0	32	1	0	71	104
Putrajaya	16	2	1	0	0	19	23
Negeri Sembilan	3	0	0	0	1	4	4
Johor	0	0	8	1	0	9	16
Melaka	3	2	0	0	1	6	8
Kedah	0	0	0	0	0	0	1
Perlis	0	0	0	0	0	0	0
Penang	4	0	13	2	0	19	29
Perak	0	0	1	1	0	2	2
Pahang	0	0	1	0	0	1	1
Kelantan	0	0	0	0	0	0	0
Terengganu	0	0	0	0	0	0	0
Labuan	0	0	0	0	0	0	0
Sarawak	3	0	0	0	0	3	4
Sabah	1	0	0	0	0	1	1
TOTAL	93	5	94	5	2	199	300
GRAND TOTAL	98		94		7		

Credit Point for WE2 (Waste Water Recycling)

State	Building Types					TOTAL PROJECTS WITH WE2 SCORE	TOTAL CERTIFIED PROJECTS (excl townships)
	Non-Residential		Residential		Industrial		
	NEW	EXISTING	NEW	NEW	EXISTING		
Kuala Lumpur	7	0	0	0	0	7	107
Selangor	12	0	2	0	0	14	104
Putrajaya	14	0	0	0	0	14	23
Negeri Sembilan	0	0	0	0	1	1	4
Johor	1	0	1	0	0	2	16
Melaka	0	0	0	0	1	1	8
Kedah	0	0	0	0	0	0	1
Perlis	0	0	0	0	0	0	0
Penang	1	0	0	1	0	2	29
Perak	0	0	0	0	0	0	2
Pahang	0	0	0	0	0	0	1
Kelantan	0	0	0	0	0	0	0
Terengganu	0	0	0	0	0	0	0
Labuan	0	0	0	0	0	0	0
Sarawak	1	0	0	0	0	1	4
Sabah	0	0	0	0	0	0	1
TOTAL	36	0	3	1	2	42	300
GRAND TOTAL	36	0	3	3			

- ### How Green Tools can help drive (or promote) national agendas - the GBI example
- Construction waste recyclers
 - achieved within 5 years of GBI's initiative
 - Sustainable Timber
 - MTCC's response to GBI's stance for sustainable timber within 3 years
 - Domestic waste recycling
 - Post occupation recycling provision and practice to advance KPKT's more than decade old thrust
 - different requirements for new and existing buildings for proper and systematic implementation
 - Water Efficient fittings
 - now taken over by SPANs' WELS system under the MyHijau Mark scheme
 - GBI is now THE data center for GB stats on energy savings and carbon reduction computation

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- ### Incentives for Green Buildings
- 2009 to Dec 2014
 - Investment Tax Allowance for buildings achieving GBI certification (> RM100million Qualifying Expenditure certificates issued)
 - Stamp Duty Exemption (on QE only)
 - Oct 2013 to Dec 2020
 - ITA for GBI certified buildings continued
 - Income Tax Exemption (Services)




Thank you

www.greenbuildingindex.org
www.mgbc.org.my


