MALAYSIA'S INTERNATIONAL GREEN BENCHMARK

greenbuildingindex

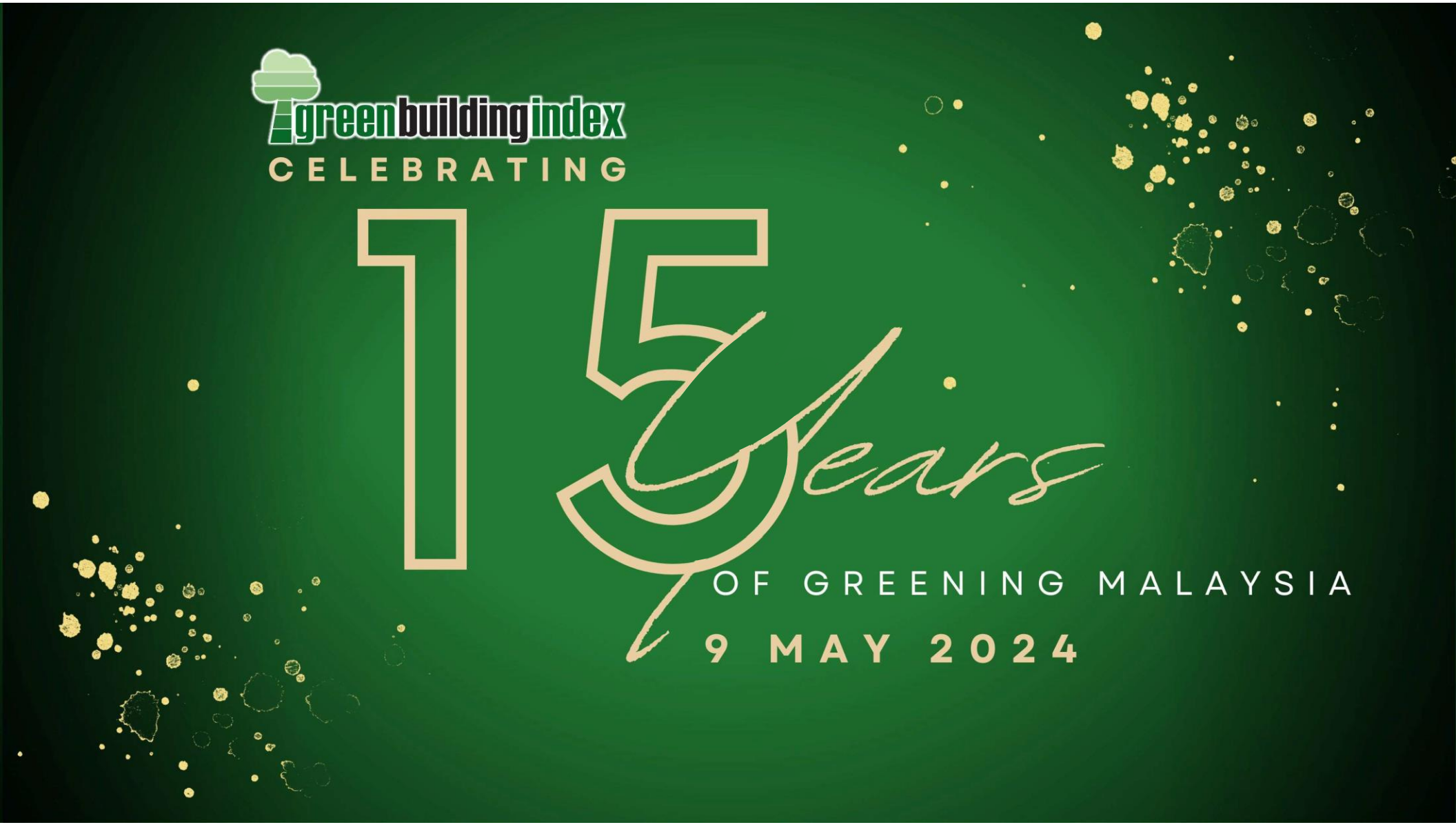
A Joint Initiative of

PAM PERTUBUHAN AKITEK MALAYSIA
MALAYSIAN INSTITUTE OF ARCHITECTS

ACEM
PERSATUAN JURUTERA PERUNDING MALAYSIA
THE ASSOCIATION OF CONSULTING ENGINEERS MALAYSIA

An Overview of Green Building Index

Supported by malaysiaGBC


greenbuildingindex
CELEBRATING
15 Years
OF GREENING MALAYSIA
9 MAY 2024

AGENDA

1. Introduction to GBI
2. GBI Project Numbers
3. Capacity Building
4. Summary of Projects Submitted for Green Cost Tax Exemption
5. EE Star Rating
6. GBI Certified Projects

01
Introduction To GBI

CONTEXT

- Stands for the United Nations Framework Convention on Climate Change
- Parent to both Paris Agreement 2015 and 1997 Kyoto Protocol
- The Convention has near universal membership (197 Parties) and is the parent treaty of the 2015 Paris Agreement.
- The main aim is to keep the global average temperature rise this century as close as possible to 1.5 degrees Celsius above pre-industrial levels.
- Maintains Registry of **Nationally Determined Contributions (NDC)**
- 2023 UN Climate Change Conference (UNFCCC COP 28)

United Nations Framework Convention on Climate Change

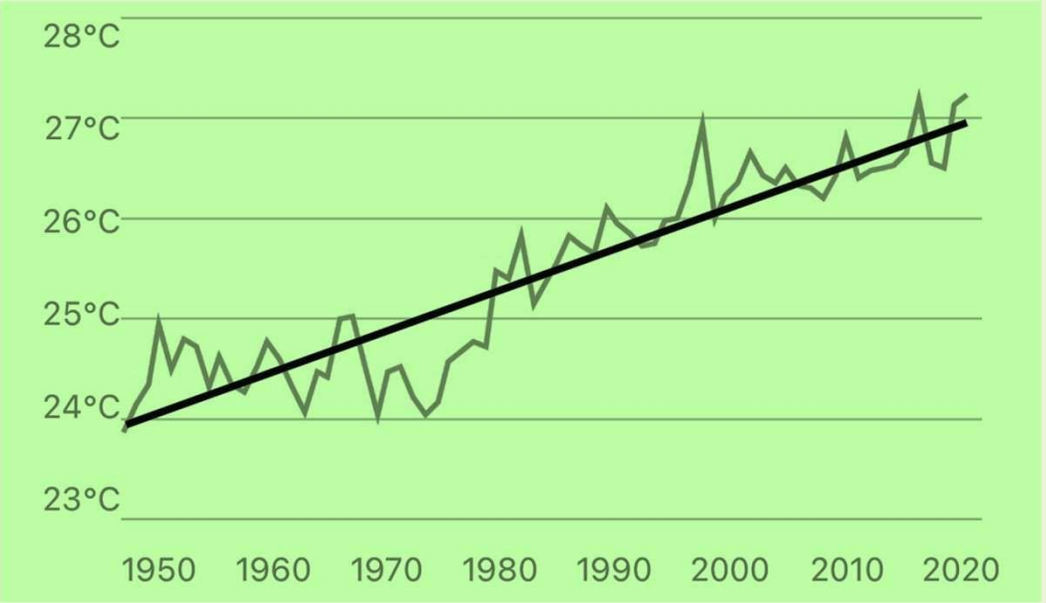
CONTEXT

The Nationally Determined Contributions (NDC)

- Malaysia intends to reduce its economy-wide carbon intensity (against GDP) of 45% in 2030 compared to 2005 level. The updated NDC includes the following increased ambition:
- The 45% of carbon intensity reduction is unconditional;
- This target is an increase of 10% from the earlier submission; and
- The GHG coverage is expanded to seven (7) greenhouse gasses (GHG): Carbon dioxide (CO_2), Methane (CH_4), Nitrous oxide (N_2O), Hydrofluorocarbons (HFCs), Perfluorocarbon (PFCs), Sulphur hexafluoride (SF_6) and Nitrogen trifluoride (NF_3

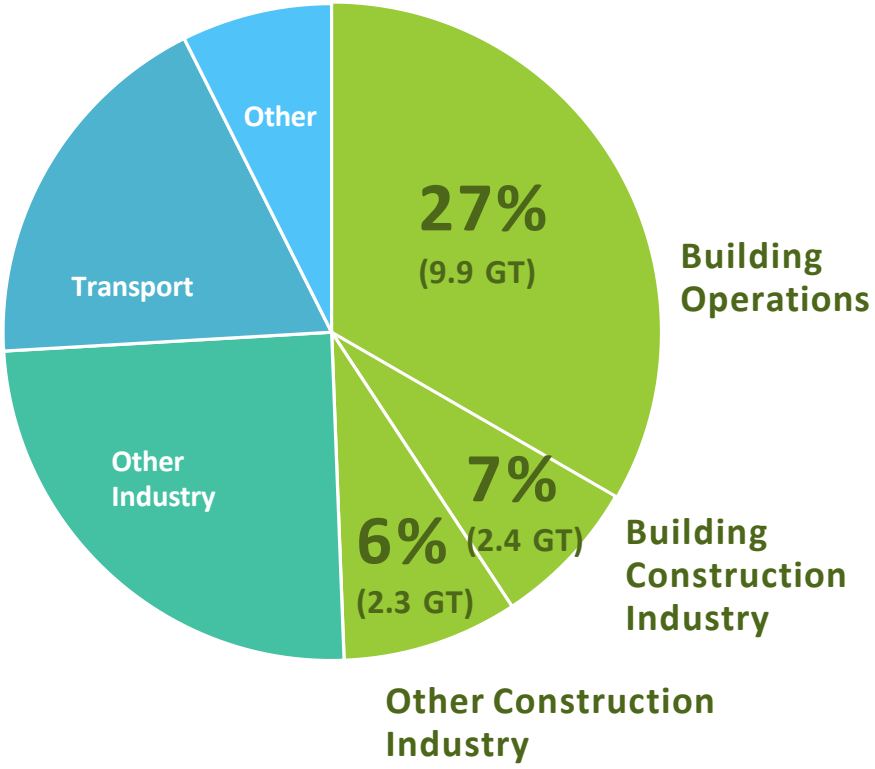
Average Temperature by year Kuala Lumpur

The average annual temperature in KL has increased since 1950.



Source: NOAA

ANNUAL GLOBAL CO2 EMISSIONS



Data Source: IEA (2022), Buildings, IEA, Paris

WHY THE BUILT ENVIRONMENT?

- Of those total emissions, building operations are responsible for 27% annually, while building and infrastructure materials and construction (typically referred to as embodied carbon) are responsible for an additional 13% annually.
- In 2040, approximately 2/3 of the global building stock will be buildings that exist today.
- Global building floor area is expected to double by 2060.
- To accommodate the largest wave of urban growth in human history, we expect to add 2.4 trillion ft2 (230 billion m2) of new floor area to the global building stock, the equivalent of adding an entire New York City to the world, every month, for 40 years.

By 2021, 4.2 billion square meters of green building space had been certified around the world through member Green Building Councils.

World GBC recognizes the power that building certifications have had in transforming the sustainability of building practices, and firmly supports their use.

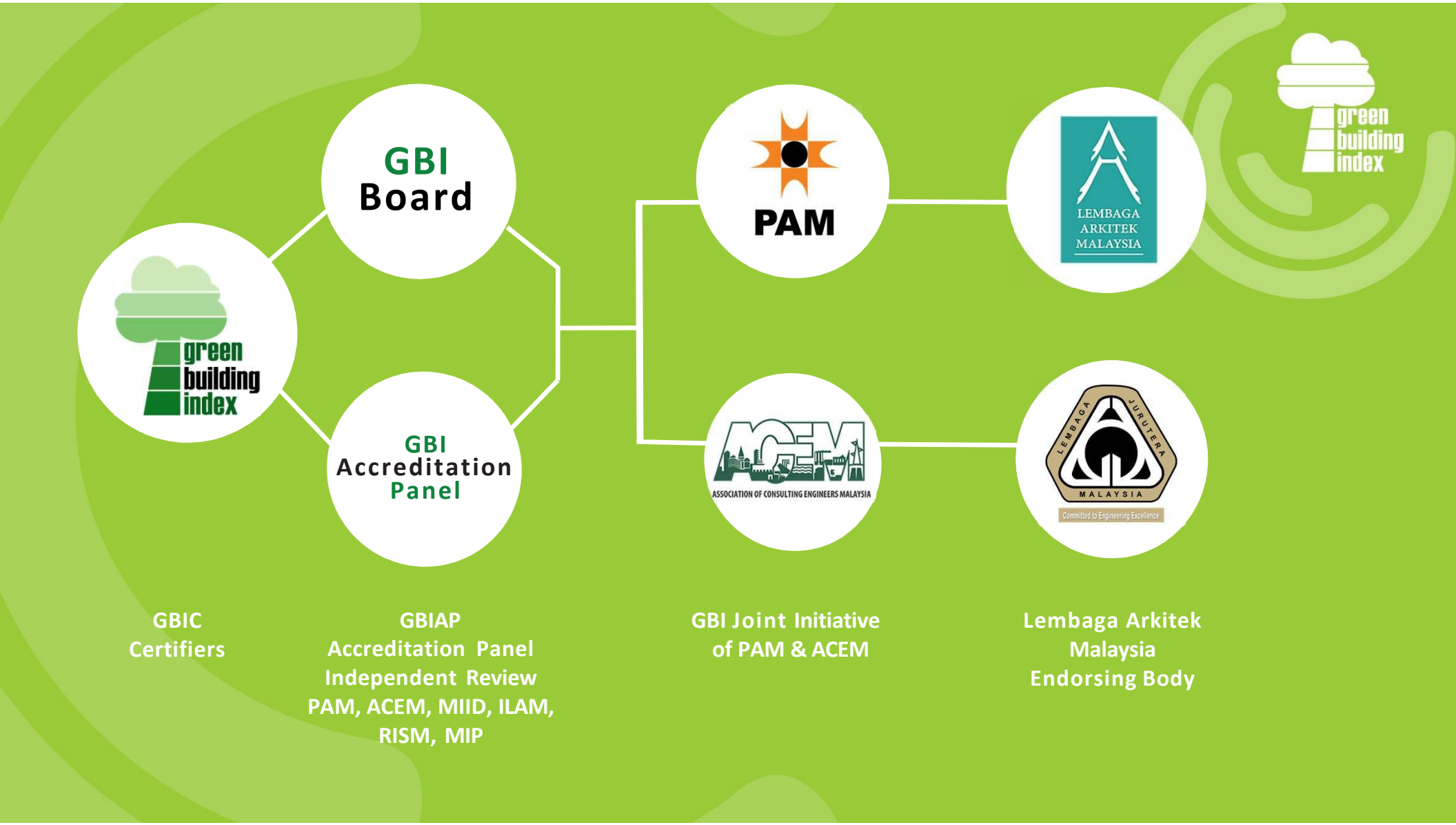
World Green Building Council

1. ARZ Rating System
2. Assessment Standard of Green Building of China
3. BEAM Plus
4. BERDE
5. B.E.S.T Residential
6. B.E.S.T – Commercial Building Certification
7. BREEAM – NOR
8. BREEAM – NL
9. BREEAM – SE
10. BREEAM
11. Casa (Columbia)
12. CASBEE
13. Citylab
14. DGNB System
15. DCBC Woonmerk
16. EDGE
17. GreenBuilding
18. GBC Brasil CASA
19. Greenship
20. **Green Building Index**
21. Green Key
22. Green Key Global
23. Green SL
24. Green Star
25. GBC - Home
26. GBC - Historic Building
27. GBC - Quartieri
28. GBC - Condomini
29. Green Star SA
30. Green Star SA Kenya

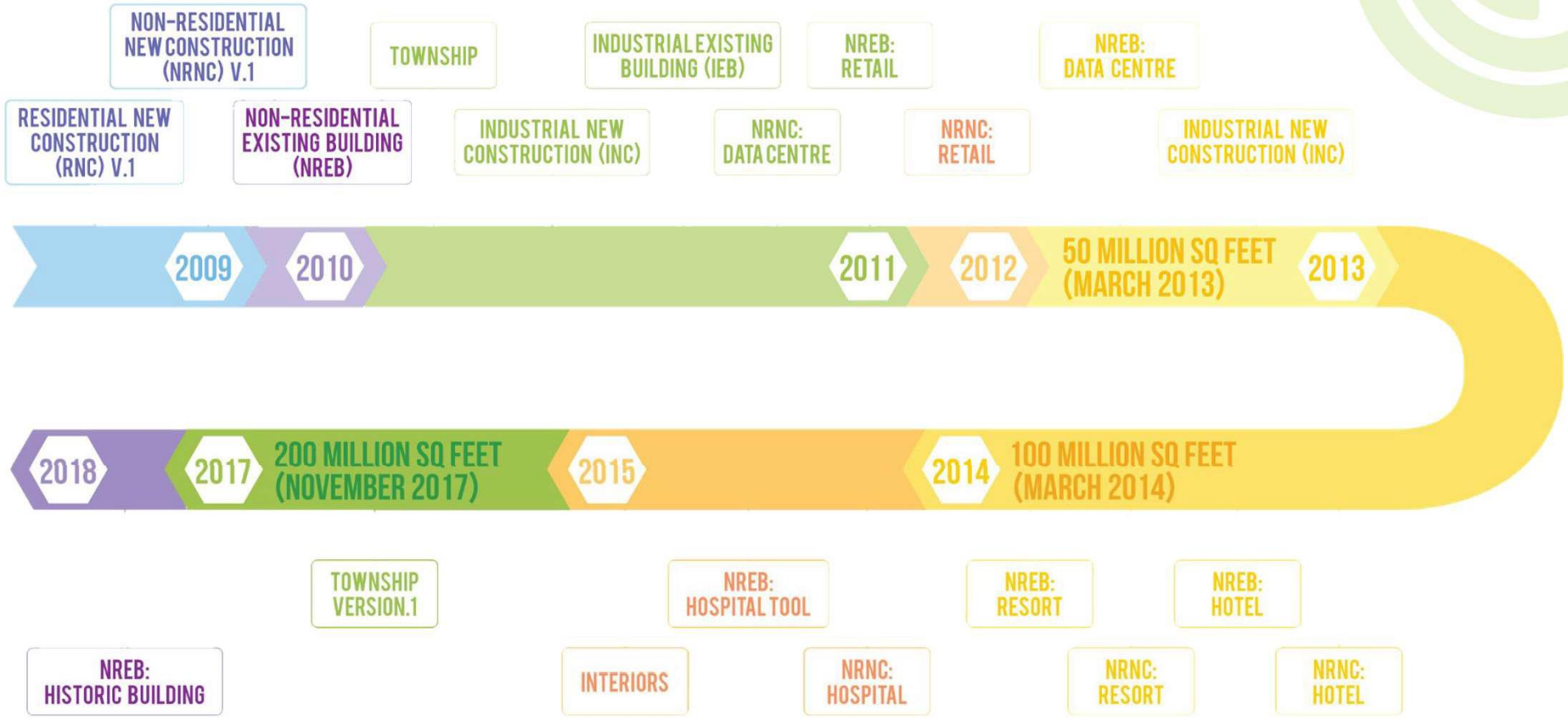
World Green Building Council – recognized Global Green Rating Tools

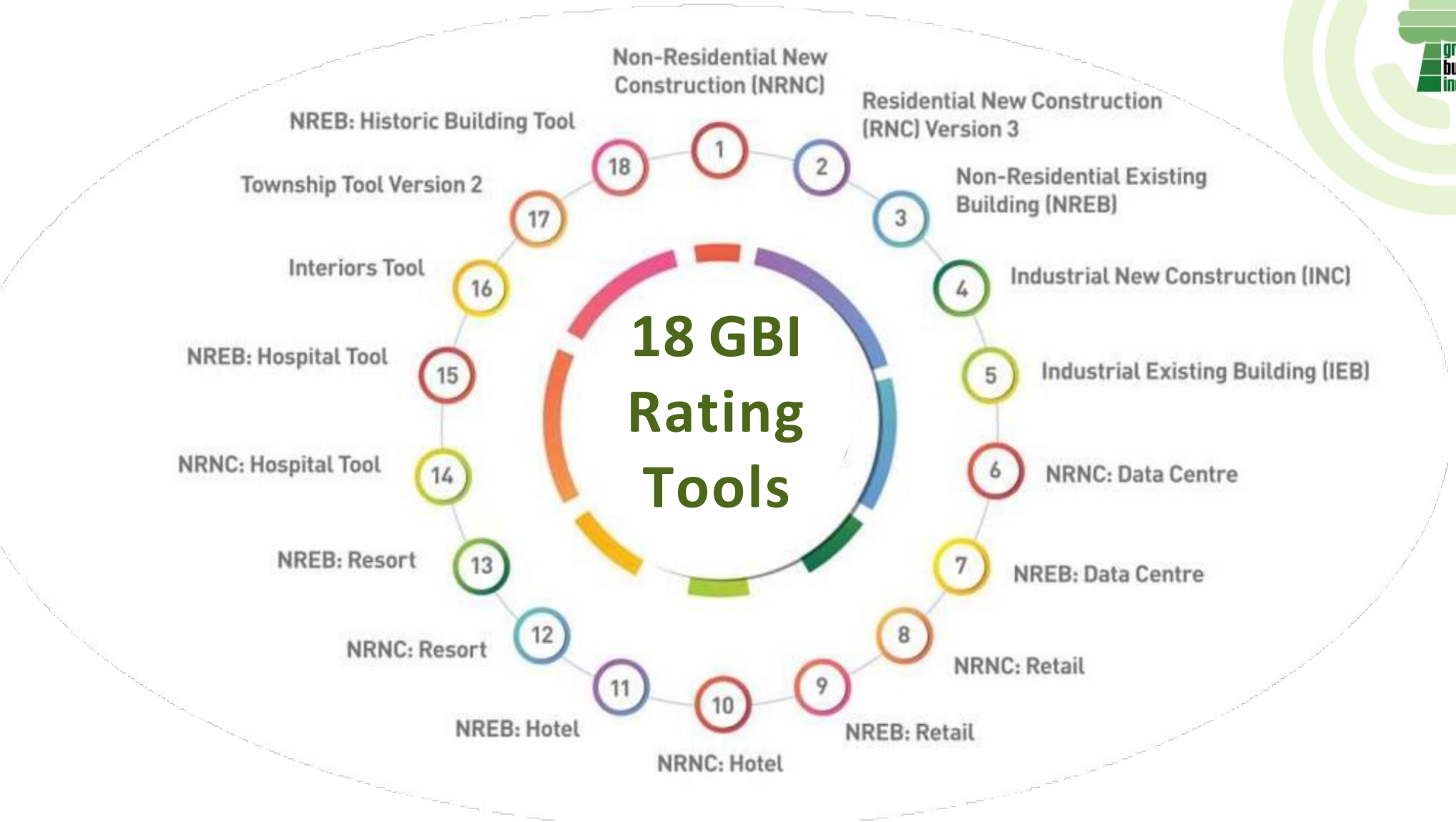
31. GRESB
32. Home Performance Index
33. Homestar
34. HQE
35. ICP
36. IGBC
37. ILFI Zero Energy & Zero Carbon
38. INSIDE/INSIDE
39. Korea Green Building Certification
40. LOTUS
41. LEED
42. Miljobyggnad
43. NABERSNZ
44. Pakistan GB Guideline (PGBG) BD + C
45. Parksmart
46. PEARL (Abu Dhabi)
47. PEER
48. RELi
49. Green Mark
50. Singapore GB Product Labelling
51. Singapore GB Services Certification Scheme
52. SITES
53. Swiss DGNB System
54. TARSHEED
55. TRUE
56. VERDE
57. The WELL Building Standard
58. Zero Waste

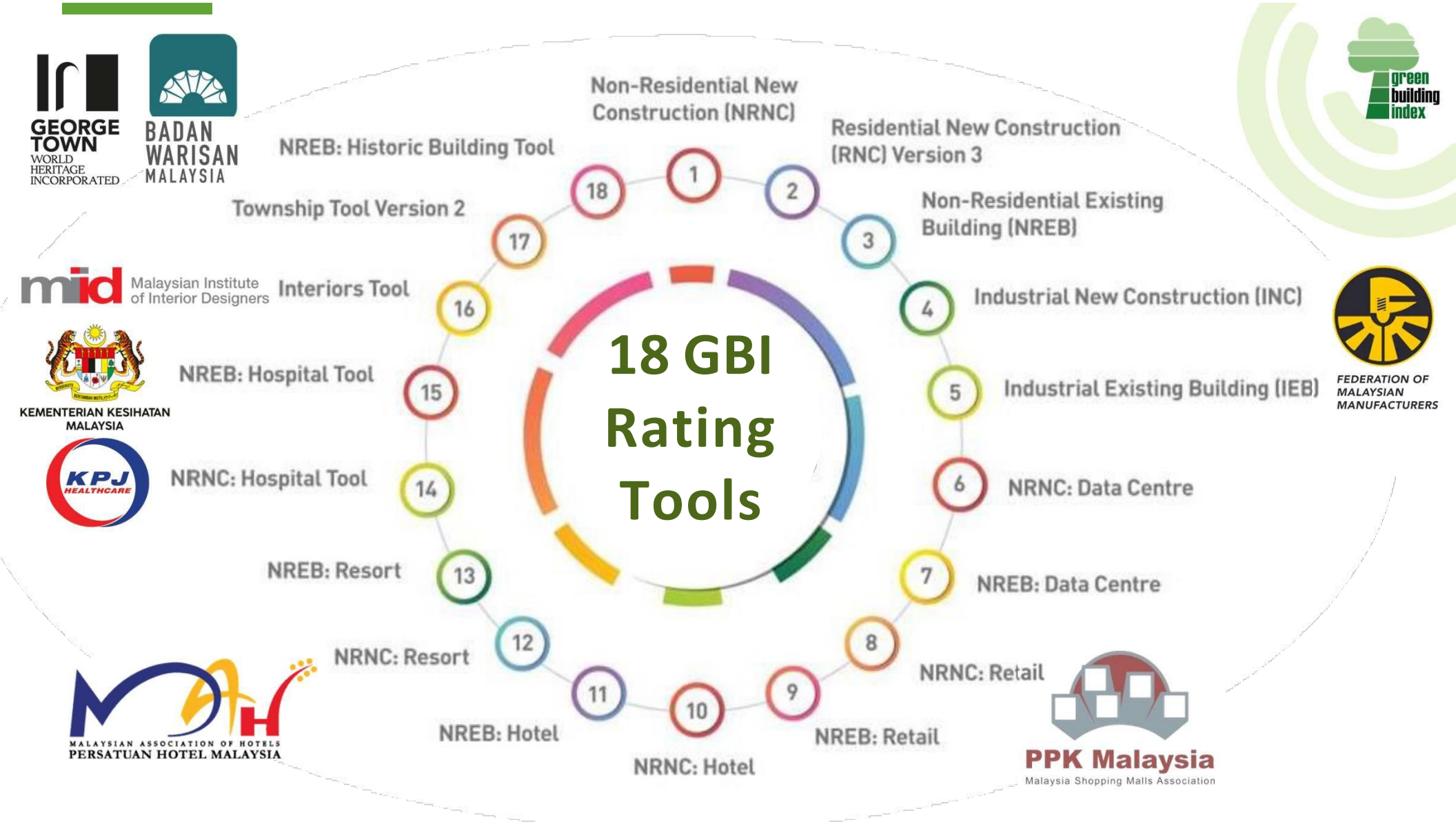
World Green Building Council – recognized Global Green Rating Tools


GBI Board
GBI Accreditation Panel
PAM
LEMBAGA ARKITEK MALAYSIA
ASSOCIATION OF CONSULTING ENGINEERS MALAYSIA
LEMBAGA JURUTERA MALAYSIA
Committed to Engineering Excellence
GBIC Certifiers
GBIAP Accreditation Panel Independent Review PAM, ACEM, MIID, ILAM, RISM, MIP
GBI Joint Initiative of PAM & ACEM
Lembaga Arkitek Malaysia Endorsing Body

Green Building Index Milestones




18 GBI Rating Tools
1 Non-Residential New Construction (NRNC)
2 Residential New Construction (RNC) Version 3
3 Non-Residential Existing Building (NREB)
4 Industrial New Construction (INC)
5 Industrial Existing Building (IEB)
6 NRNC: Data Centre
7 NREB: Data Centre
8 NRNC: Retail
9 NREB: Retail
10 NRNC: Hotel
11 NREB: Hotel
12 NRNC: Resort
13 NREB: Resort
14 NRNC: Hospital Tool
15 NREB: Hospital Tool
16 Interiors Tool
17 Township Tool Version 2
18 NREB: Historic Building Tool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13 NREB: Resort
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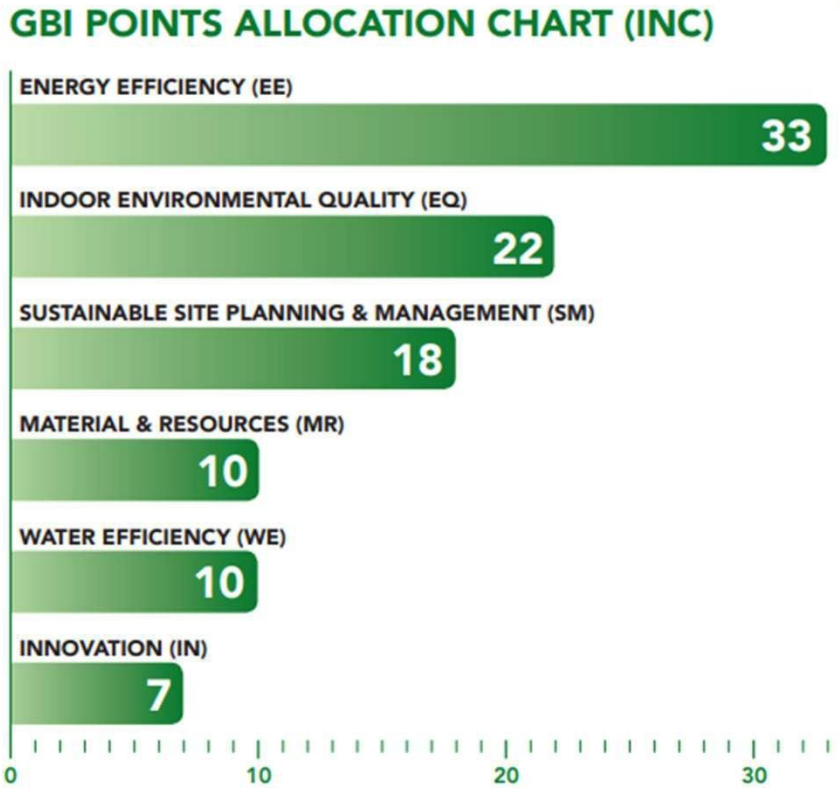
15 NREB: Hospital Tool
16 Interiors Tool
17 Township Tool Version 2
18 NREB: Historic Building Tool

GBI Industrial Rating Tools

INDUSTRIAL NEW CONSTRUCTION (INC)

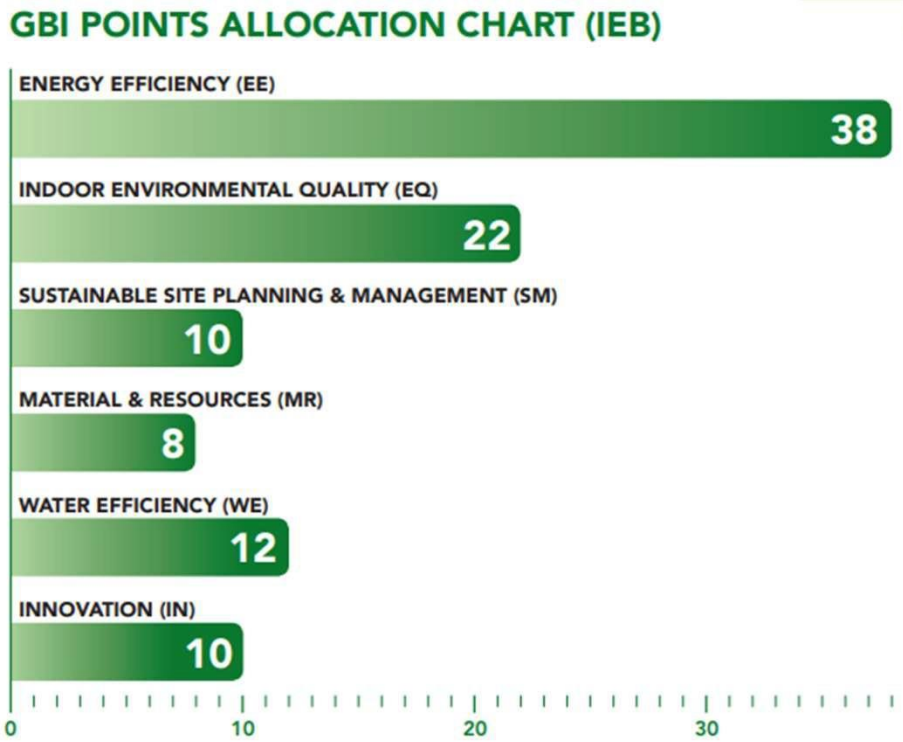
The INC Rating Tool adopts the established 6 GBI criteria with emphasis placed on Energy Efficiency and Indoor Environmental Quality (IEQ). These have the greatest impact on energy use and the well-being of occupants and workers in the industrial building. On-site energy capture and improvement in process-energy-use are given prominence with provision of breakout space to reduce workers' fatigue. Proximity to cargo transportation also reduces environmental pollution. The tool evaluates some credits prescriptively but the majority of credits are performance based.



GBI Industrial Rating Tools

INDUSTRIAL EXISTING BUILDING (IEB)

The IEB Rating Tool evaluates the sustainablity aspects of existing industrial buildings including their processes. Additional credits are given to encourage higher Energy Efficiency which is still lacking priority because of subsidised energy tariffs. The prominence and importance of IEQ is maintained to ensure the well-being and productivity of the occupants and workers. Credit points are also increased for Water Efficiency and Innovation to encourage improvement and modification. Facility Management is introduced to inculcate good sustainable management practices. This will improve environmental protection through the appropriate the use of chemicals, pesticides and procurement policies.

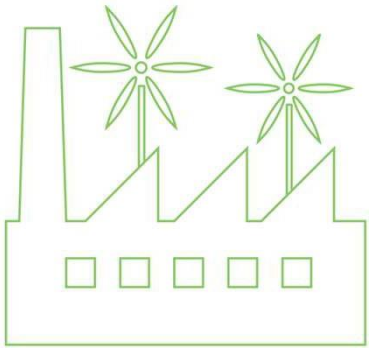


Why Green Factories?

The industrial sector consumes over 40% of the final energy use in Malaysia. In terms of electricity, this sector consumes almost 50% of the national electricity production which is equal to the combined consumption of the commercial and domestic sectors. These statistics point to the importance and need for greening the factories to achieve a sustainable built environment. Since the successful launch of GBI, industrial players have expressed keen interest to green their factories. To cater for this demand, GBI worked with the Federation of Malaysian Manufacturers (FMM) to develop a rating tool with flexibility to suit all types of factories prevalent in Malaysia. The resultant Industrial New Construction (INC) Tool includes the assessment of industrial resources and processes, unlike other international rating tools which tend to only evaluate the sustainable aspects of buildings.

WHAT ABOUT OLD FACTORIES?

Existing buildings constitute more than 90% of the building stock and this statistics also applies to the industrial building stock. GBI recognises that Company Corporate Policy and demand by Importers are increasing the pressure to green existing factories. To meet this need, GBI launched both the INC and IEB simultaneously in 2011 – a first by any global green rating tool.



Industrial New Construction (INC)

PART	CRITERIA	ITEM	POINTS	TOTAL
1	**EE**	**ENERGY EFFICIENCY**		
	Design & Performance			33
	EE1	Minimum EE Performance	1	
	EE2	Lighting Zoning	3	
	EE3	Electrical Sub-metering	1	
	EE4	Renewable Energy & Onsite Energy Capture/Recovery	8	
	EE5	Advanced or Improved EE Performance - BEI and/or EUI	10	
	Commissioning			
	EE6	Enhanced Commissioning	4	
	EE7	On-going Post Occupancy Commissioning	2	
	Verification & Maintainence			
	EE8	EE Verification	2	
	EE9	Sustainable Maintenance	2	

2	EQ	INDOOR ENVIRONMENTAL QUALITY		22
	Air Quality			
	EQ1	Minimum IAQ Performance	1	
	EQ2	Environmental Tobacco Smoke (ETS) Control	1	
	EQ3	Carbon Dioxide Monitoring and Control	1	
	EQ4	Indoor Air Pollutant & Industrial Chemical Exposure	3	
	EQ5	Mould Prevention	1	
	Occupant Comfort			
	EQ6	Thermal Comfort: Design & Controllability of Systems	2	
	EQ7	Air Change Effectiveness	1	
	EQ8	Breakout Spaces	1	
	Lighting, Visual & Acoustic Comfort			
	EQ9	Daylighting	2	
	EQ10	Daylight Glare Control	1	
	EQ11	Electric Lighting Levels	1	
	EQ12	High Frequency Ballasts	1	
	EQ13	External Views	2	
	EQ14	Internal Noise Levels	1	
	Verification			
	EQ15	IAQ Before & During Occupancy	2	
	EQ16	Post Occupancy Comfort Survey: Verification	1	

PART	CRITERIA	ITEM	POINTS	TOTAL
3	**SM**	**SUSTAINABLE SITE PLANNING & MANAGEMENT**		
	Site Planning			18
	SM1	Site Selection	1	
	SM2	Brownfield Redevelopment	1	
	SM3	Development Density & Community Connectivity	2	
	SM4	Environment Management	2	
	SM5	Noise Pollution	1	
	Construction Management			
	SM6	Earthworks - Construction Activity Pollution Control	1	
	SM7	QLASSIC	1	
	SM8	Workers' Site Amenities	1	
	Transportation			
	SM9	Public Transportation Access & Transportation Plan	1	
	SM10	Green Vehicle Priority	1	
	SM11	Parking Capacity	1	
	SM12	Cargo Delivery Route and Proximity	1	
	Design			
	SM13	Stormwater Design – Quality & Quantity	1	
	SM14	Greenery & Roof	2	
	SM15	Building User Manual	1	

4	**MR**	**MATERIALS & RESOURCES**		
	Reused & Recycled Materials			10
	MR1	Materials Reuse and Selection	2	
	MR2	Recycled Content Materials	2	
	Sustainable Resources			
	MR3	Regional Materials	1	
	MR4	Sustainable Timber	1	
	Waste Management			
	MR5	Storage & Collection of Recyclables	1	
	MR6	Construction Waste Management	2	
	Green Products			
	MR7	Refrigerants & Clean Agents	1	
5	**WE**	**WATER EFFICIENCY**		
	Water Harvesting & Recycling			10
	WE1	Rainwater Harvesting	2	
	WE2	Water Recycling	2	
	Increased Efficiency			
	WE3	Water Efficient - Irrigation/Landscaping	2	
	WE4	Water Reduction	2	
	WE5	Metering & Leak Detection System	2	

6	IN	INNOVATION		
	IN1	Innovation & Environmental Design Initiatives	6	7
	IN2	Green Building Index Facilitator	1	
			TOTAL POINTS	100

Industrial Existing Building (IEB)

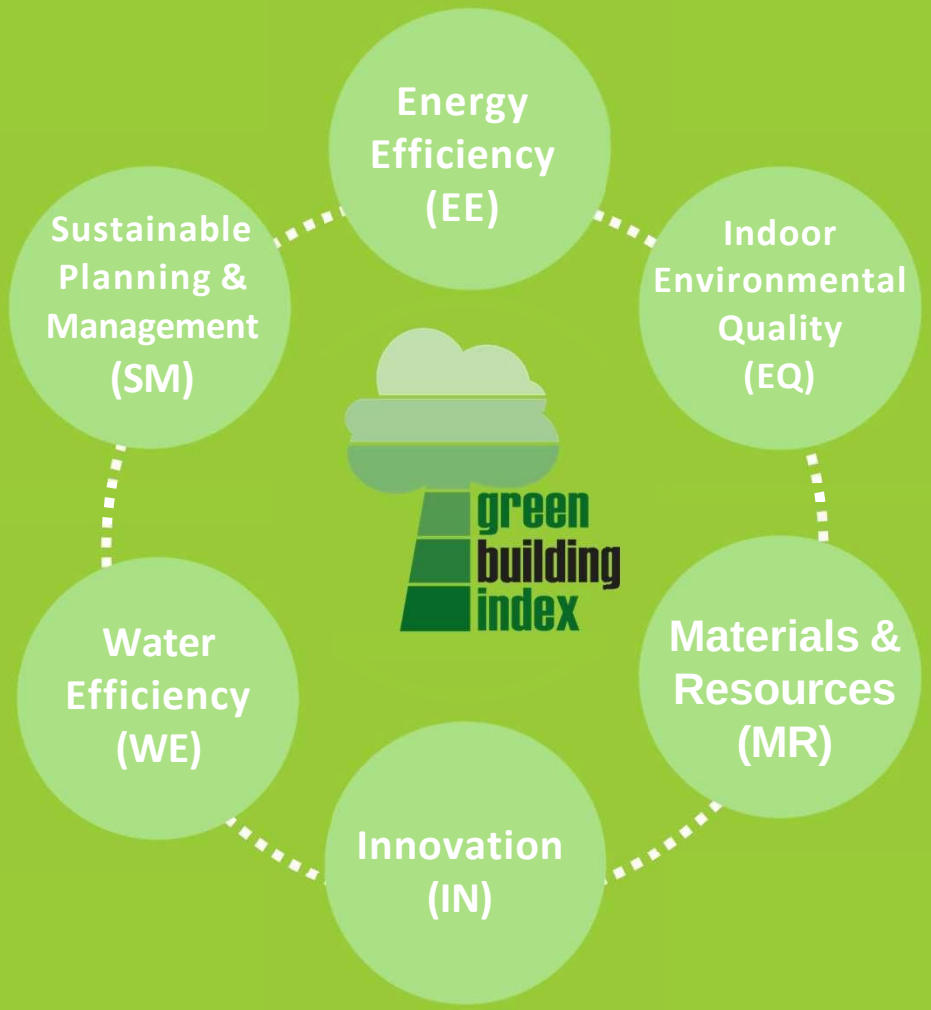
PART	CRITERIA	ITEM	POINTS	TOTAL
1	**EE**	**ENERGY EFFICIENCY**		
	Design & Performance			38
	EE1	Minimum EE Performance	2	
	EE2	Lighting Zoning	3	
	EE3	Electrical Sub-metering	2	
	EE4	Renewable Energy & Onsite Energy Capture	8	
	EE5	Advanced or Improved EE Performance - BEI and/or EUI	10	
	Commissioning			
	EE6	Enhanced or Re-Commissioning or Retro Commissioning	5	
	EE7	On-going Post Occupancy Commissioning	2	
	Monitoring, Improvement & Maintenance			
	EE8	EE Monitoring & Improvement	2	
	EE9	Sustainable Maintenance	4	

2	EQ	INDOOR ENVIRONMENTAL QUALITY		22
	Air Quality			
	EQ1	Minimum IAQ Performance	1	
	EQ2	Environmental Tobacco Smoke (ETS) Control	1	
	EQ3	Carbon Dioxide Monitoring and Control	1	
	EQ4	Indoor Air Pollutant & Industrial Chemicals	3	
	EQ5	Mould Prevention	1	
	Occupant Comfort			
	EQ6	Thermal Comfort: Controllability of Systems	2	
	EQ7	Air Change Effectiveness	1	
	EQ8	Breakout Space	1	
	Lighting, Visual & Acoustic Comfort			
	EQ9	Daylighting	2	
	EQ10	Daylight Glare Control	1	
	EQ11	Electric Lighting Levels	1	
	EQ12	High Frequency Ballasts	1	
	EQ13	External Views	2	
	EQ14	Internal Noise Levels	1	
	Verification			
	EQ15	IAQ Before & During Occupancy	2	
	EQ16	Post Occupancy Comfort Survey: Verification	1	

PART	CRITERIA	ITEM	POINTS	TOTAL
3	**SM**	**SUSTAINABLE SITE PLANNING & MANAGEMENT**		
	Facility Management			10
	SM1	GBI Rated Design & Construction	1	
	SM2	Building Exterior Management	1	
	SM3	Integrated Pest Management, Erosion Control & Landscape Management	1	
	Transportation			
	SM4	Green Vehicle Priority	1	
	SM5	Parking Capacity	1	
	Reduce Heat Island Effect			
	SM6	Greenery & Roof	4	
	SM7	Building User Manual	1	

4	MR	MATERIALS & RESOURCES		
	Reused & Recycled Materials			8
	MR1	Materials Reuse and Selection	1	
	MR2	Recycled Content Materials	1	
	Sustainable Materials & Resources and Policy			
	MR3	Sustainable Timber	1	
	MR4	Sustainable Purchasing Policy	1	
	Waste Management			
	MR5	Storage, Collection & Disposal of Recyclables	3	
	Green Products			
	MR6	Refrigerants & Clean Agents	1	
5	WE	WATER EFFICIENCY		
	Water Harvesting & Recycling			12
	WE1	Rainwater Harvesting	3	
	WE2	Water Recycling	3	
	Increased Efficiency			
	WE3	Water Efficient - Irrigation/Landscaping	2	
	WE4	Water Efficient Fittings	2	
	WE5	Metering & Leak Detection System	2	

6	IN	INNOVATION		
	IN1	Innovation & Environmental Initiatives	9	10
	IN2	Green Building Index Facilitator	1	
			TOTAL POINTS	100



6 Main Criteria

Covering everything from EE to Innovation, with all the latest Malaysian Standards and meet International level of certification.

02

GBI Project Numbers

GREENING MALAYSIA ONE BUILDING AT A TIME

300

MILLION SQUARE FEET

OF CERTIFIED GREEN BUILDINGS

greenbuildingindex

Officiated by

YB TUAN NGA KOR MING

MINISTER OF LOCAL GOVERNMENT DEVELOPMENT

As of June 2024,

696 Projects Certified

(1,306 Projects applied)

29.1 Million Square Meters

(313.1 Million sqft)

1,815,000 tCO2E/Annum

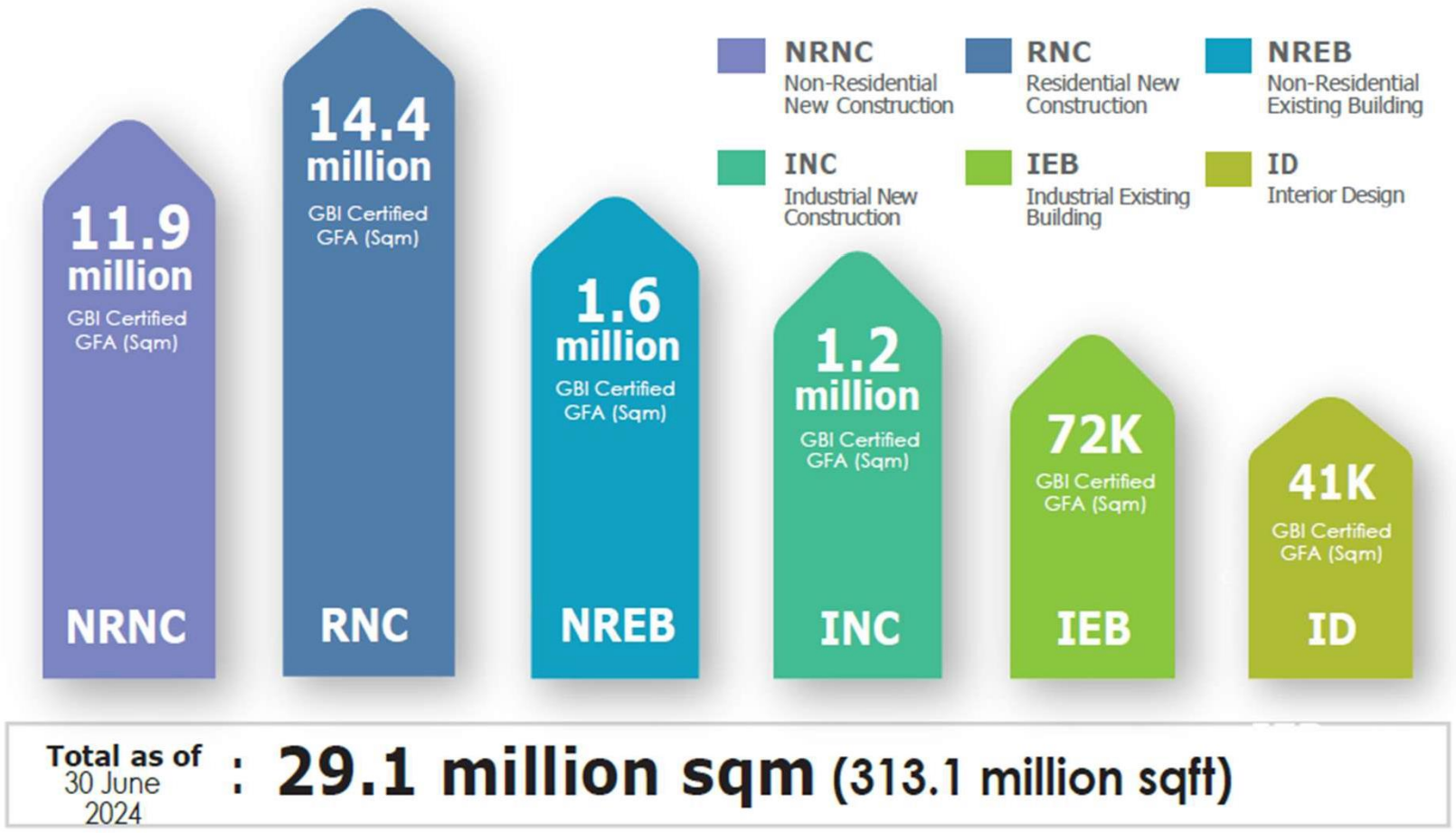
GBI REGISTERED PROJECTS

Stage	Applied	Registered	Total Certified	Provisional Certification DA/PA	Final Planning Certification FPA	Final Certification CVA	Renewal Certification RVA
NRNC	687	643	353 (51%)	220	N/A	100	33
RNC	407	383	240 (35%)	143	N/A	97	-
NREB	76	71	37 (5%)	17	N/A	13	7
INC	87	79	36 (4%)	26	N/A	6	4
IEB	10	9	4 (1%)	1	N/A	2	1
ID	15	15	11 (2%)	3	N/A	8	-
T	24	23	15 (2%)	11	4	-	-
Total as of 30 June 2024	**1,306**	**1,223**	**696 (100%)**	**421**	**4**	**226**	**45**

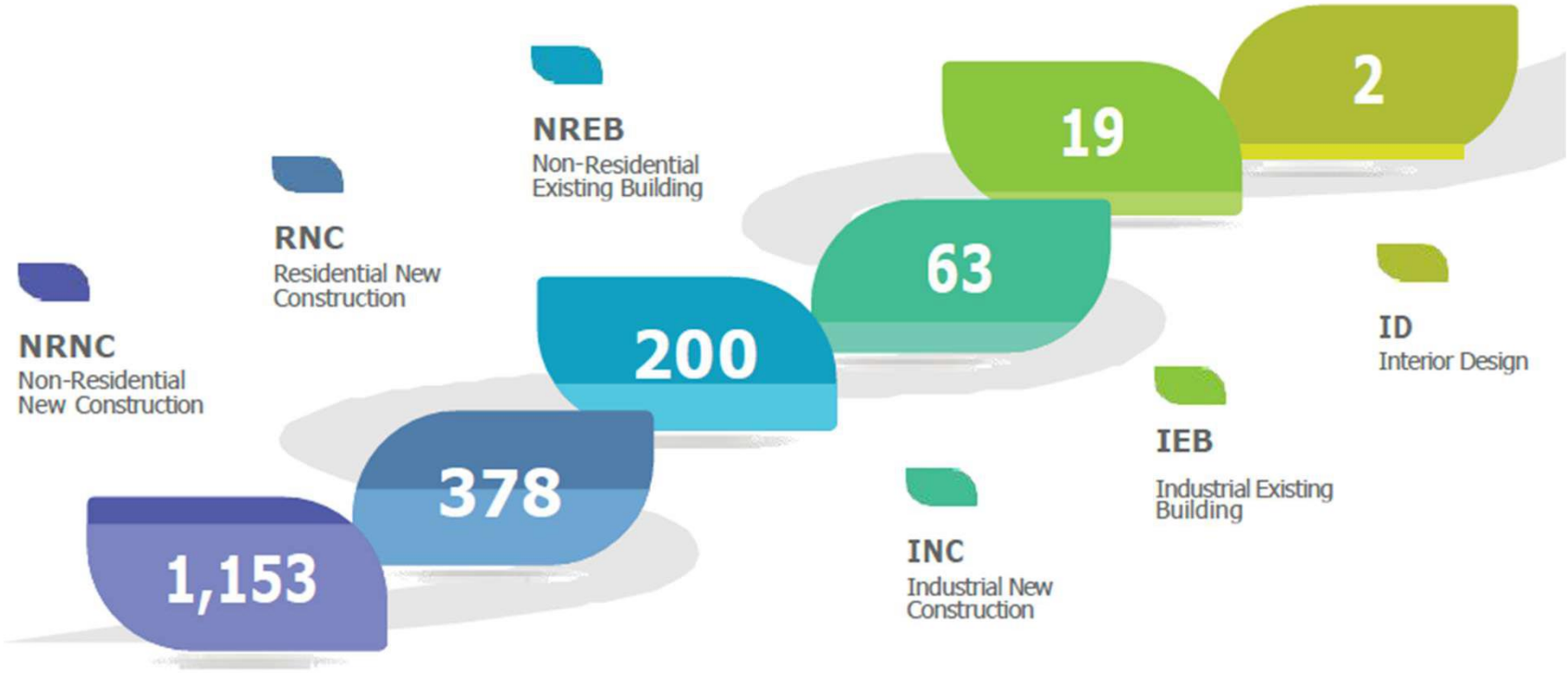
GBI REGISTRY- BY RATING LEVEL

RATING LEVEL	PLATINUM GLOBAL EXCELLENCE 86-100Points	GOLD NATIONAL EXCELLENCE 76-85Points	SILVER EXCELLENT PRACTICE 66-75Points	CERTIFIED GOOD PRACTICE 50-65Points	Total Certified
NRNC	17	69	49	218	353
RNC	6	43	20	171	240
NREB	1	3	2	31	37
INC	-	6	8	22	36
IEB	-	1	-	3	4
ID	-	4	2	5	11
T	1	3	4	7	15
Total as of 3o June 2024	**25 (4%)**	**129 (19%)**	**85 (12%)**	**457 (65%)**	**696**

GLOSS FLOOR AREA (GFA) OF GBI RATED BUILDINGS

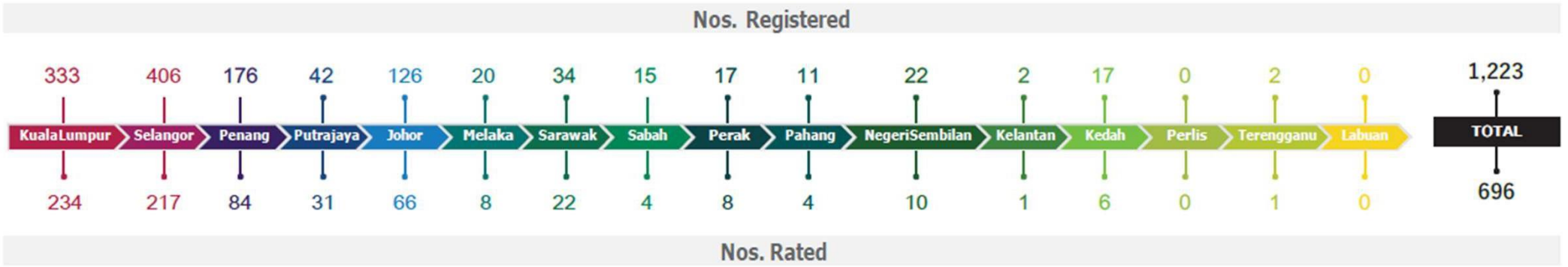


CARBON DIOXIDE (CO2) EMISSION REDUCTION OF GBI RATED BUILDINGS



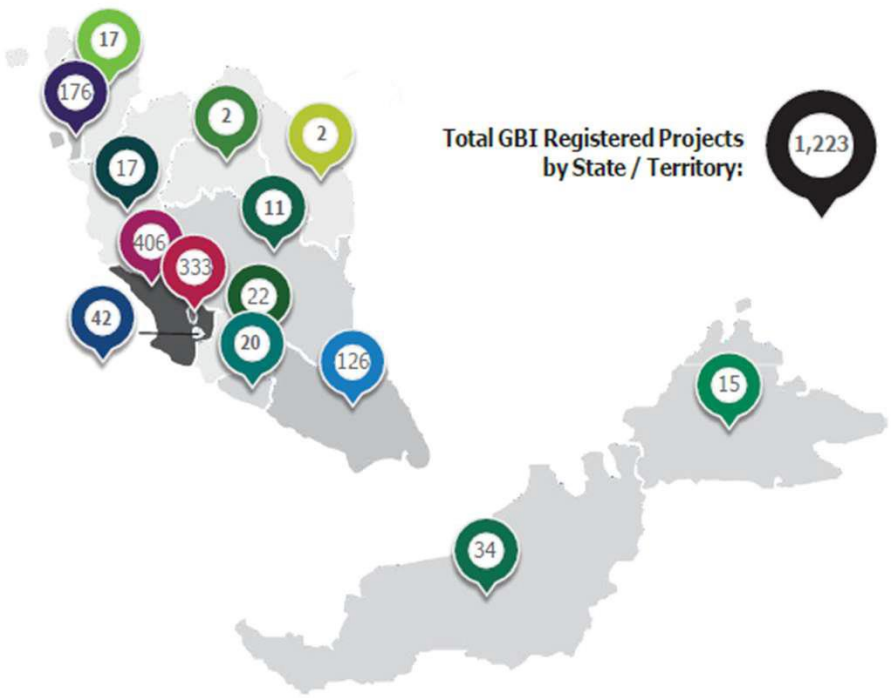
Total as of 30 June 2024 : **1,815** | CO_2 Emission Reduction : ($ktCO_2e$/annum, based on electricity energy reduction only @ 1kWh = 0.780kg CO_2 - Peninsular / 0.222 kg CO_2- Sarawak / 0.527 kg CO_2 - Sabah)

GBI PROJECTS BY STATES/TERRITORIES



GBI PROJECTS REGISTERED BY STATES/TERRITORIES

GBI Project **Registered** - by State/Territory



GBI Project **Rated** - by State/Territory

Number of projects: 0 | 1 - 10 | 10 - 50 | 50 - 100 | 100 - 150 | 150 - 200 | 200 - 250 | 250 - 300

03

Capacity Building

GBI FACILITATOR COURSE : OBJECTIVE & EXAMINATION

OBJECTIVE

The GBI Facilitator Program is a training that covers all aspects of the GBI certification process for buildings, including all the tools and application procedures. The GBI Facilitator Program is open to all. Completion of the full program is required for participants to qualify for the GBI Facilitator Examination. A participant must attend not less than nine (9) modules of the GBI Facilitator Course to complete the program.

EXAMINATION

Only those who intend to be GBI Facilitators need to sit for the examination, comprising a one hour multiple choice question (MCQ) examination; and a group project presentation. The pre-requisite for the examination is 75% of the course attendance.

GBI FACILITATOR COURSE : PROGRAMME

(SUBJECT TO CHANGE BASED ON AVAILAIBILITY OF THE SPEAKERS)

TIME	Day 1 Webinar 1 Introduction of GBI, Rating Tools & Green Cost	Day 2 Webinar 2 Passive Design in GBI Tools	Day 3 Webinar 3 Active Design in GBI Tools	Exam & Presentation Day
08.00AM - 08.30AM	Registration			
08.30AM - 09.00AM	Introduction to GBI & Township	Passive Design	EE HVAC Systems & Design	Online MCQ
09.00AM - 09.30AM				
09.30AM - 10.00AM	Introduction to RNC v3	Building Envelope		
10.00AM - 10.30AM				
10.30AM - 10.45AM	Tea Break			
10.45AM - 11.15AM	Intro to NRNC, NREB and NRNC Genetic Tools	Building Envelope	EE Lighting	Group Assignment Presentation/Examiners
11.15AM - 11.45AM				
11.45AM - 12.15PM	Water Efficiency	Intro to Interior Tools	Renewable Energy	
12.15AM - 12.45PM				
12.45PM - 01.45PM	Lunch & Friday Prayer	Lunch		
01.45PM - 02.15PM				
02.15PM - 02.45PM	Project Green Cost Preparation & Tax Incentives	Indoor Environmental Quality/Daylight & Ventilation/Acoustic	BEI/EUI/PUE/MDL	
02.45PM - 03.15PM				
03.15PM - 03.45PM				
03.45PM - 04.00PM	Tea Break			
04.00PM - 04.30PM	GBI Procedure, Actual Data and Submission	Sustainable Site	Indoor Environment Quality Advanced (HVAC)	
04.30PM - 05.00PM				
05.00PM - 05.30PM	Exam Briefing & Group Project Discussion	Construction & Materials	EE HVAC Strategies, malaysiaGBC/GPM/AOB	
05.30PM - 06.00PM				

GBI FACILITATOR COURSE : OBJECTIVE & EXAMINATION

PRE-REQUISITES TO BE GBI FACILITATORS

Participants who intend to be GBI Facilitators must fulfill the following pre-requisites:

1. A registered professional member of Board of Architects, Board of Engineers or Board of Quantity Surveyors;
OR
A recognised degree in architecture, engineering, quantity surveying or other building related disciplines as approved by the GBI Accreditation Panel; and with a minimum of 3 years relevant working experience acceptable to the GBI Accreditation Panel;
OR
Other building practitioners with minimum of 5 years relevant working experience acceptable to the GBI Accreditation Panel;
AND

2. Successfully completed the GBI Facilitator Program and passing the examination.

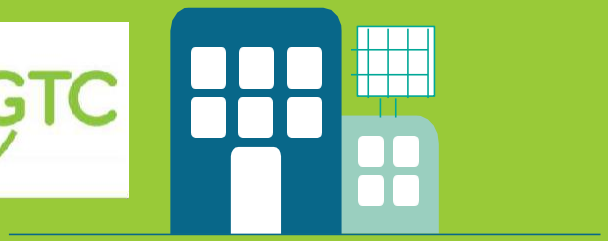
GBI FACILITATOR COURSE : STATISTICS

Total GBIF Courses (As of Jan 2024)	52
Total Participants	3,271
Total Passed	2,012
Total Registered GBIFs (As of Jan 2024)	1,133

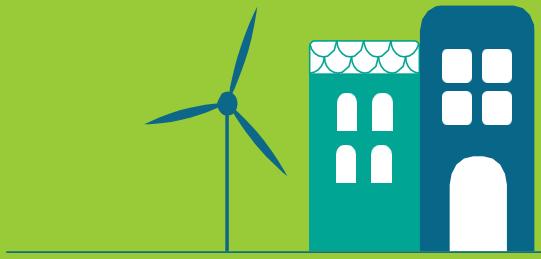
04

Summary of Projects Submitted for Green Cost Tax Exemption

Green Technology Incentive, Income Tax Act 1967



Investment Tax Allowance (ITA) Project (Own Consumption) + ITA Asset



(ITA) Project (business purposes) + Income Tax Exemption (ITE) for Solar Leasing

National Budget 2024

- Green Investment Tax Allowance (GITA) Project (Own Consumption) merged with GITA Asset
- **GITA Project (Own Consumption) : New Applications to be submitted to MGTC within the stipulated timeframe (effective 1 Jan 2024 – 31 Dec 2026)**
- Extension of period of the Green Investment Tax Allowance (GITA) Project for business purposes and Green Income Tax Exemption (GITE) for Solar Leasing until 31 Dec 2026

BENEFITS OF GREEN

INCREMENTAL COST OF GOING GREEN

		Average M'sian Bldg	Meets MS1525	GBI Certified	GBI Silver	GBI Gold	GBI Platinum
Projected data by Ir TL Chen in 2009; not verified	BEI kWh/m².year	250	200 - 220	150 - 180	120 - 150	100- 120	<100
	Energy Savings %	Base	10 - 20	30 - 40	40 -50	50 – 60	> 60
	Incremental construction cost %	Base	1 – 3	5 – 8	8 – 12	12 – 15	>15
		2011	(0 – 3)*	(1 – 5)*	(3 – 8)*	(5 – 10)*	(6 – 13)*
GBI data in 2014	Average			0.7 – 2% 1%	2 – 4.% 3%	3.5 – 8% 5%	6.5 – 11% 8%
Incremental cost of GBI certification 2012 – 2019	Average			0 – 2% 1.1%	1 – 3% 1.8%	2 – 6% 3.8%	5 - 10% Small sample
Data for Qualifying Green Cost for GITA up to 2022 (not applicable for existing buildings)	Average			0.22 – 3% 1.87%	1 – 5 % 2.97%	2 – 9% 4.54%	5 - 11% 8.7% Small sample

05
EE Star Rating

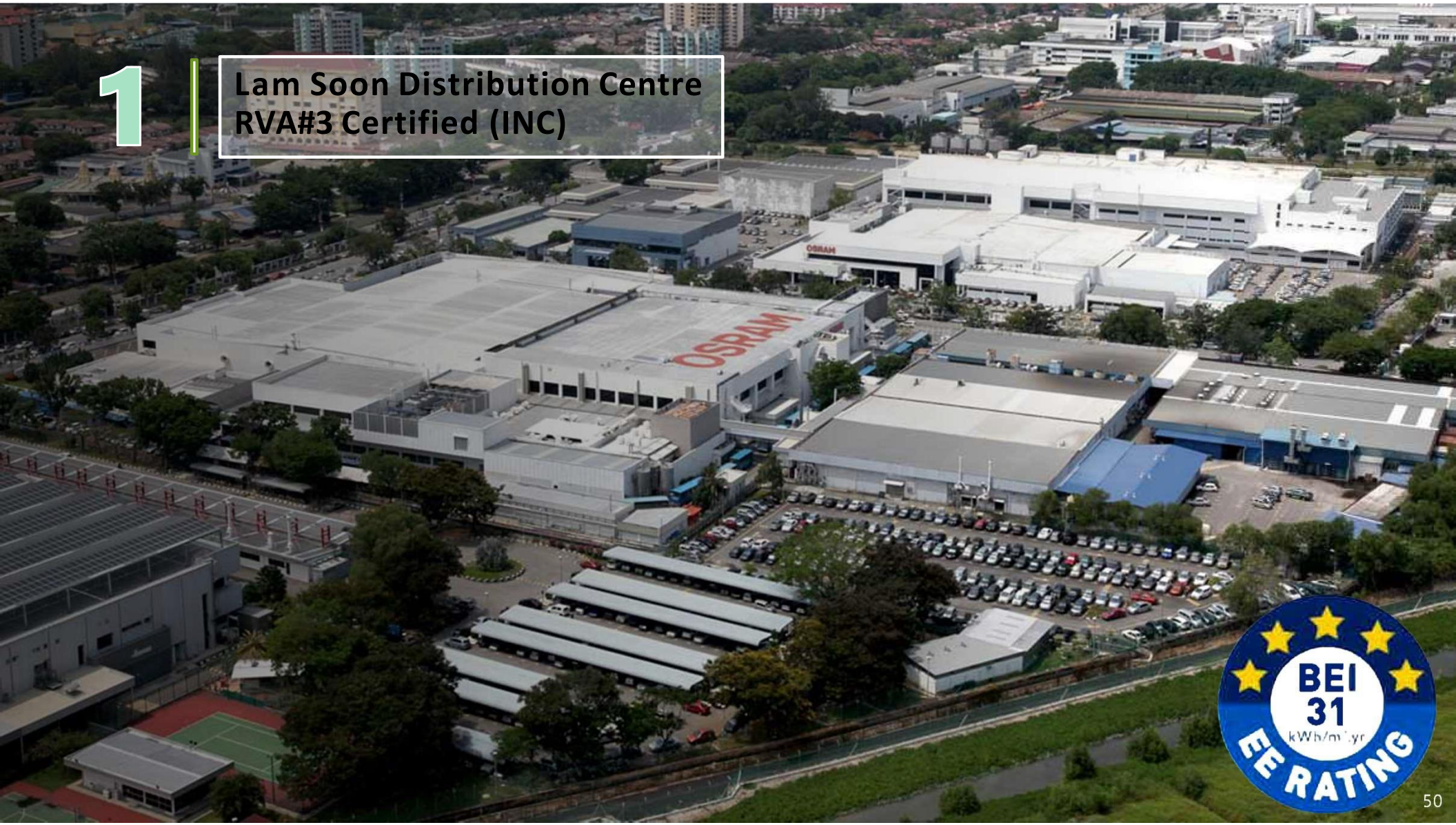
EE STAR RATING - BASED ON BEI/PUE/EUI AWARDED

INC/IEB			
EE5	**BEI**	**EE Star**	**EUI % improvement**
0	250	0	0
0	200	1	5
1	180	1	10
3	150	2	25
4	140	3	30
5	130	3.5	35
6	120	4	40
7	110	4.5	45
8	100	5	50
10	90	5	55

06

GBI Certified Projects

1 Lam Soon Distribution Centre RVA#3 Certified (INC)



2 Artmatrix Factory RVA#2 Certified (INC)

3 Sena Diecasting Industries Sdn Bhd
RVA#1 Certified (IEB)

4 | The Hershey Company
RVA Gold (INC)

5 New Pharmaceutical Plant for Ain Medicare (Ain 5) CVA Certified (INC)

6 | IKEA Distribution Centre Port Klang, Malaysia
CVA Silver (INC)

greenbuildingindex

Greening Malaysia One Building At A Time

Thank you!

https://www.greenbuildingindex.org

https://youtu.be/UNtudsyHonE

MALAYSIA'S INTERNATIONAL GREEN BENCHMARK