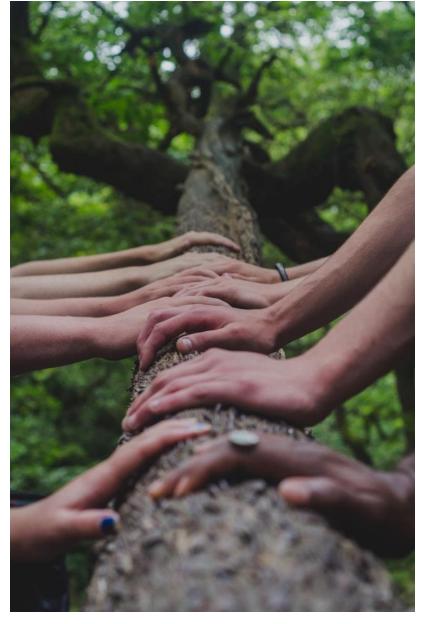


malaysiaGBC roadmap 2021-2025



IMPACT TO THE ENVIRONMENT























Malaysia Green Building Council



Formation

Formation of Malaysia Green Building Confederation and Malaysia first green building tool



Recognition

malaysiaGBC become only organisation in Malaysia endorsed and supported by WGBC.



Leading

The key driving force towards a Sustainable Built Environment in Malaysia.

2007

2009

2011

2015

2015

Today

Initiatives

Industry players met up to create a nonprofit making organization to promote sustainable building in Malaysia.



GPM

Formation of first green resources platform



Northern & Sabah Chapter

Formation of Northern and Sabah Chapter.



malaysiaGBC NORTHERN CHAPTER malaysiaGBC SOUTHERN CHAPTE

Southern Chapter

Formation of Southern Chapter.



Green Building Net Zero UN SDG & ESG + Health & WellBeing **Green Financing**

Circular Economy







Road Map 2021- 2025

Our mission is to transform the building and construction sector across three strategic areas—climate action, health & wellbeing, and resources & circularity—we are a national action network comprising of building owners, manufacturers, professionals and municipalities

How will we achieve it?

As members of the World Green Building Council and UN Global Compact, we work with businesses, organisations and governments to drive the ambitions of the Paris Agreement and UN Global Goals for Sustainable Development. More then this at a Glocal level we are committed to Malaysia's Low Carbon, Sustainable Goals & Environmental, Social and Corporate Governance (ESG) focusing on the built and natural environment. Through a systems change approach, our network is leading the industry towards a net zero carbon, healthy, equitable and resilient built environment.

Why do we exist?

Buildings and Construction account for 39% of energy related CO₂ emissions and we together can flatten the carbon curve.





Goals 2021- 2025 What is our goal?

Climate Action

Health & Wellbeing

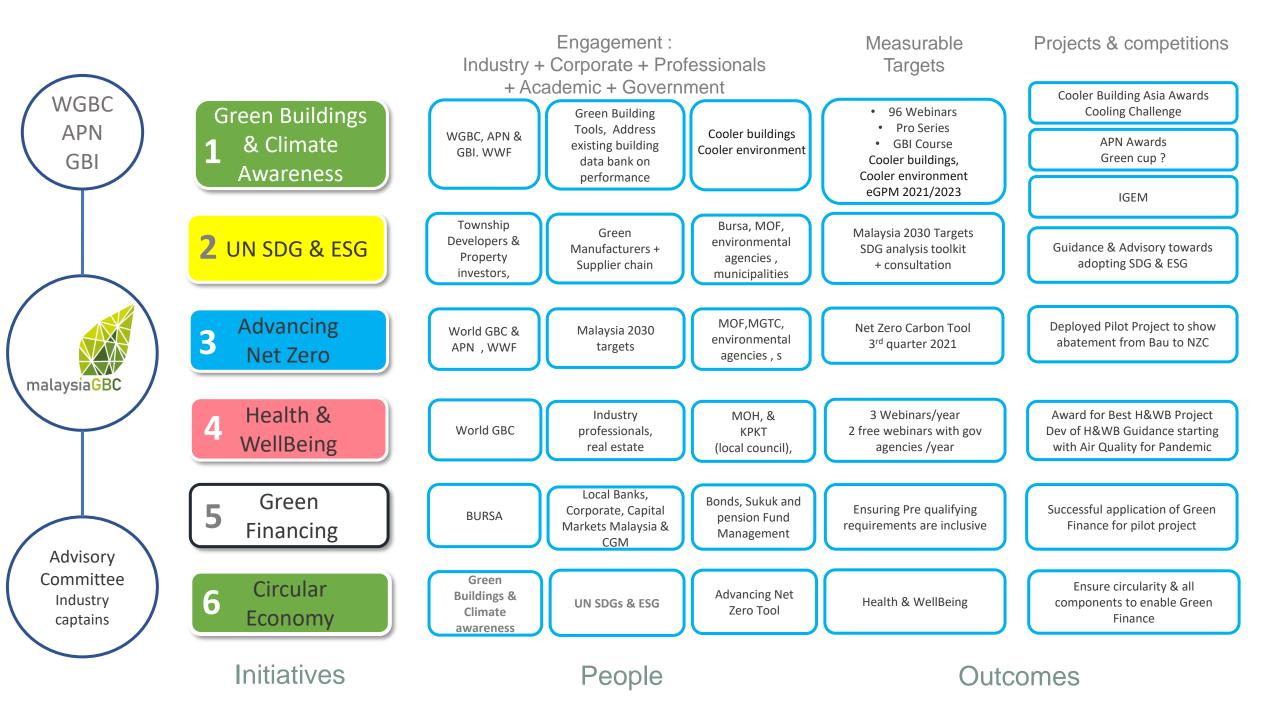
Circularity & Green

- Promoting Green buildings and
- Advancing Net Zero towards decarbonisation of the built environment.
- Adopting & applying the UN SDG's and ESG for our industry
- A built environment that delivers **Healthy**,
 Equitable and Resilient buildings, communities, townships & cities.
- A built environment that supports the regeneration of resources and natural systems, providing socio-economic benefit through a thriving Circular economy(Cradle to Cradle) with clear support through Green financing

Road Map initiatives 2021- 2025

- 1 Green Buildings / Climate Awareness
- 2 UN SDGs & ESG
- 3 Net Zero Carbon Tool
- 4 Health & Wellbeing
- Green Finance
- 6 Circularity









- Advancing Green buildings and the adoption of MS1525 & MS2680: 2017 EE for buildings & residentials.
- Adopting at all PBT's and government to make mandatory by 2023 to address climate change.
- Pushing for Existing building target transformation adoption by government by 2025.
- Cooler Buildings, Cooler environment a public- private initiative to promote climate responsive buildings in the tropics, reducing urban heat island by passive & nature based solutions.
- Increasing urban and sub urban Ecology for urban heat island mitigation

Green Buildings & Climate Awareness





- Integrating ESG (Sustainable Environmental, Social and Governance) and Reporting Sustainability through SDGs for Businesses and Industries
- Pilot Partners in Sustainability Reporting of integrating SDGs in line with:
 - i. Bursa Malaysia Reporting Guide and/or
 - ii. GRI Standards
- Localize the approach to ESG and Sustainability Reporting for local businesses and industries.
- Launch a guide for ESG and sustainability reporting for local built environment related businesses and industries by December 2021
- Engagement Workshops developing the key individualized frameworks for each industry.







- Advancing Net Zero Buildings tool by 3rd Quarter 2021 and launch Pilot project & Beta testing
- Generate balance on Operational Carbon
- A plan for net zero emissions buildings by 2030 and 2050, with interim targets for emissions and energy performance, supporting policy frameworks and coordinated action across different levels of government as well as a process for reporting on progress National Construction Code that is zero carbon ready, with a forward plan for energy efficiency improvements to 2030
- Policy priorities ,Government leadership, Vision for cities & communities, Smarter infrastructure Investments

Carbon

Neutrality +
Net Zero

Whole Life Carbon Vision



New buildings, infrastructure and renovations will have net zero embodied carbon, and all buildings, including existing buildings, must be net zero operational carbon.

Net Zero Operational Carbon

Definition

A net zero carbon building is highly energy efficient with all remaining energy from onsite and/or offsite renewable sources

Guiding Principles

1. Measure and disclose carbon

Carbon is the ultimate metric to track, and buildings must achieve an annual operational net zero carbon emissions balance based on metered data

2. Reduce energy demand

Prioritise energy efficiency to ensure that buildings are performing as efficiently as possible, and not wasting energy

3. Generate balance from renewables

Supply remaining demand from renewable energy sources, preferably on-site followed by off-site, or from offsets

4. Improve verification and rigour

Over time, progress to include embodied carbon and other impact areas such as zero water and zero waste

Net Zero Carbon Buildings Commitment

All buildings within direct control to operate at net zero carbon by 2030



Net Zero Opertational Carbon

2030

New buildings, infrastructure and renovations will have at least 40% less embodied carbon with significant upfront carbon reduction, and all new buildings must be net zero operational carbon.

Net Zero Embodied Carbon

Net Zero Embodied Carbon

Definition

A net zero embodied carbon building (new or renovated) or infrastructure asset is highly resource efficient with upfront carbon minimised to the greatest extent possible and all remaining embodied carbon reduced or, as a last resort, offset in order to achieve net zero across the lifecycle.

Guiding Principles

1. Prevent

Avoid embodied carbon from the outset by considering alternative strategies to deliver the desired function

2. Reduce and optimise

Evaluate each design choice in terms of the upfront carbon reductions and as part of a whole lifecycle approach

3. Plan for the future

Take steps to avoid future embodied carbon during and at end of life

4. Offset

As a last resort, offset residual embodied carbon emissions within the project or organisational boundary where possible or if necessary through verified offset schemes

courtesy of World green building Council





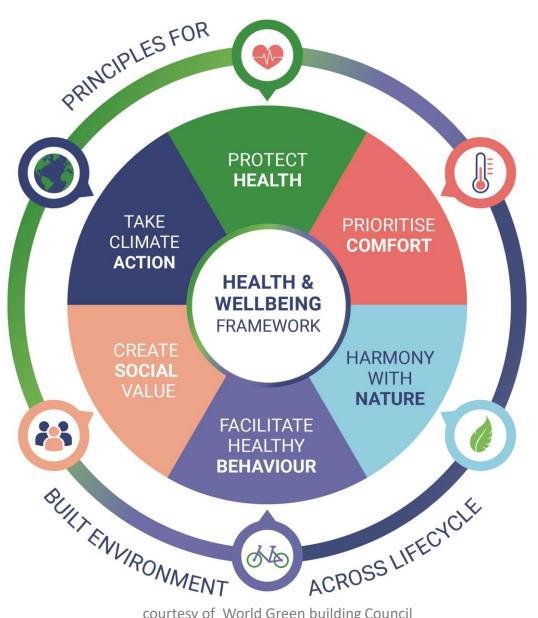
- to promote "Post-Pandemic building designs"; to respond to the challenges posed by the Coronavirus in terms of ventilation and sanitation requirements.
- to include all other aspects of Health & WellBeing into the above factor so as to contribute toward the achievement of "new and existing high performance buildings".
- To ensure high quality Health & WellBeing environment within buildings so as to foster greater innovation and creativity thereby achieving greater productivity.

Health & WellBeing





Health & WellBeing



With the COVID-19 pandemic bringing the link between the built environment and human health into focus, the Framework's six principles span indoor air quality, human rights in the supply chain, climate change resilience and more.

courtesy of World Green building Council





- To continue to, locally and internationally, track and promote the positive developments on Green mechanisms such as Finance, Sukuk, Bonds, etc.
- To promote projects to use such Green Financial facilities and to realise their widespread use within the industry in Malaysia.
- To work with like minded organisations, such as CGM and Bursa Malaysia as means to instigate businesses to transform towards sustainability using possible pathways using the SDG's, ESG, NZC & Health & WellBeing.
- Promoting public-private partnerships on financing mechanisms such as green bonds
- Internal capacity building on mutual understanding of green financing

Green Financing





Circular Economy

- to build capacity within the industry and for businesses on the concept of CE, its benefits and how it can be achieved
- to create synergy and symbiosis in our efforts on promoting SDGs, ESG, NCZ & H+WB, to ultimately achieve full circularity.
- to expand the role of GPM as a guide and innovator in promoting CE through the use of products and services.



An information resource directory for green building products and services.

The primary objective is in connecting sustainable building products and services to conscientious clients, developers and building professionals.



















Thank You Join malaysiaGBC!



membership@mgbc.org.my

























malaysiaGBC Silver 2020/2021

