



ABOUT MALAYSIAGEC

Formation of the Malaysia Green Building Council (formally known as Malaysia Green Building Confederation (MGBC)) started in May 2007, when a group consultant, academia and representatives from the building industry met to initiate a non-profit making organisation to promote sustainable buildings in Malaysia. This group with increasing participants met several times during 2007 and 2008, and official registration of the Malaysia Green Building Council was initiated.

Later in 2008, the group was supported by the two professional organisations Pertubuhan Akitek Malaysia (PAM) and the Association of Consulting Engineers Malaysia (ACEM), and by April 2009, the Malaysia Green Building Council was officially registered.

The malaysiaCBC is supported by the professional, industrial and government sectors it is well poised to tead our building industry in embracing responsible measures that would help realized energy savings water conservation, a healthier indoor environment, better public connectivity, recycling of valuable resources and provision of greenery in developments.

carb@nScore Targeting total decarbonisation of the Malaysian building and construction sector SUBMIT A PROJECT

Submission Overview

Towards Zero Emission Buildings in Malaysia



CarbonScore is an initiative of the Malaysia Green Building Council (malaysiaGBC), an established member of the World Green Building Council (WorldGBC) and is affiliated with their global Advancing Net Zero program, targeting total decarbonisation of the building & construction sector by 2050.

How CarbonScore Works

CarbonScore can be used in a number of different ways by a broad range of stakeholders

Developers

In support of strategic planning, asset management, marketing and environmental performance evaluation of existing, current and future projects.

Financial Institutions

Provides an independently verified & cost-effective Sustainable Performance Target (SPT) assessment in support of green financing products and services.

Public Authorities

Presents a powerful off-theshelf tool that aligns with LCC reporting requirements, GIS integration and other comparable public sector planning and regulatory initiatives.

Building Owners / Facilities Managers

Identify pathways for MENU improved performance and maximize returns from efficient building operations.

Building Professionals

Reporting protocols are designed to align with and compliment established green building rating tools.

Residents' Associations & Community Organisations

Promote organizational values and provide amenity to stakeholders via enhanced environmental reporting.

Individual Home Owners / Businesses

Track & understand individual carbon footprints and contribute to ESG reporting frameworks.

MENU

CarbonScore evaluates and verifies all elements that comprise an existing building's total CO₂ footprint:

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The result is an annualized assessment of a building's whole-life carbon emissions and reductions, benchmarked to established Malaysian standards.

- Operational Carbon primarily from electricity consumption, but also including water supply, wastewater treatment and disposal of municipal solid waste during building occupancy;
- Embodied Carbon associated with the materials, manufacturing, transportation and construction processes needed to create and maintain a building across its lifecycle; and
- Reduced Emissions via enhanced energy efficiency, on-site renewable energy generation and procurement of off-site renewable energy from the grid (eg. renewable energy certificates).

Methodology

Carbon Factors & Baselines

- Malaysia's Fourth Biennial Update Report submitted to the United Nations Framework Convention on Climate Change [UNFCCC] in December 2022
- United Nations Intergovernmental Panel on Climate Change [IPCC]
- GHG Protocol
- Malaysia Energy Commission / Suruhanjaya Tenaga (ST)
- Malaysia Standard MS1525:2019 —
 Energy efficiency and use of renewable energy for non-residential buildings Code of practice (Third revision)
- Malaysia Standard MS2680:2017 —
 Energy efficiency and use of renewable energy for residential buildings Code of practice (Third revision)

- Department of Statistics Malaysia.
- The Sustainable Energy Development Authority (SEDA) Malaysia
- ASHRAE Standard 228 2023
- CIDB Embodied Carbon for Construction Materials
- ISO 14040 Environmental management —
 Life cycle assessment Principles and framework
- United Nations Environment Programme



The Checklist



Submission Checklist



Pengiktirafan *CarbonScore* Untuk TNB Platinum

SHERATON HOTEL, PETALING JAYA, 2 Julai 2024 - Malaysian Green Building Council (MGBC) dalam misinya untuk menggalakkan pembangunan mampan dan lestari di Malaysia, telah melancarkan sistem akreditasi CarbonScore pada Januari 2024. CarbonScore ini bertujuan sebagai pemangkin kepada sasaran bangunan zero-carbon dan carbon neutrality di Malaysia. Bangunan TNB Platinum adalah bangunan kedua yang telah didaftar untuk proses akreditasi ini.



Untuk menghargai komitmen pihak TNB kepada penggunaan sistem akreditasi *CarbonScore* dan menjulang pencapaian Bangunan TNB Platinum untuk pengurangan karbon (carbon reduction) berjumlah 40% iaitu 5,700 tonne(t) of CO2 equivalent(e) / setahun berbanding garis dasar (baseline) untuk bangunan-bangunan pejabat di Malaysia, upacara penganugerahan sijil *CarbonScore* untuk bangunan TNB Platinum telah disempurnakan olen YB Tuan Nik Nazmi bin Nik Ahmad, Menteri Sumber Asli dan Kelestarian Alam, pada Majlis Makan Malam Tahunan MGBC pada 2 Julai 2024.

