

Malaysia - Green Building Index

What is the Green Building Index?

The Green Building Index (GBI) is Malaysia's industry recognised green rating tool for buildings to promote sustainability in the built environment and raise awareness among Developers, Architects, Engineers, Planners, Designers, Contractors and the Public about environmental issues and our responsibility to the future generations.

The GBI rating tool provides an opportunity for developers and building owners to design and construct green, sustainable buildings that can provide energy savings, water savings, a healthier indoor environment, better connectivity to public transport and the adoption of recycling and greenery for their projects and reduce our impact on the environment.

GBI is developed specifically for the Malaysian-tropical climate, environmental and developmental context, cultural and social needs and is created to:

- Define green buildings by establishing a common language and standard of measurement;
- Promote integrated, whole-building designs that provides a better environment for all;
- Recognise and reward environmental leadership;
- Transform the built environment to reduce its negative environmental impact; and
- Ensure new buildings remain relevant in the future and existing buildings are refurbished and upgraded to improve the overall quality of our building stock.

How does GBI work?

The GBI certification process starts with an assessment of the building design by a certifier appointed by Greenbuildingindex Sdn Bhd. A Provisional certification is then issued, with the final certification issued when the completed building has been verified according to the design. To maintain the certification, the building is reassessed every three years. Points are given for performance above benchmarks and current industry practice. Depending on the scores achieved, the buildings will be awarded one of four types of ratings: Certified, Silver, Gold and Platinum. The assessment of commercial and residential properties under the GBI rating tool is based on six main criteria as follows:

Energy Efficiency (EE)

Improve energy consumption by optimising building orientation, minimizing solar heat gain through the building envelope, harvesting natural lighting, adopting the best practices in building services including use of renewable energy, and ensuring proper testing, commissioning and regular maintenance.

Indoor Environment Quality (EQ)

Achieve good quality performance in indoor air quality, acoustics, visual and thermal comfort. These will involve the use of low volatile organic compound materials, application of quality air filtration, proper control of air temperature, movement and humidity.

Sustainable Site Planning & MANAGEMENT (SM)

Selecting appropriate sites with planned access to public transportation, community services, open spaces and landscaping. Avoiding and conserving environmentally sensitive areas through the redevelopment of existing sites and brownfields. Implementing proper construction management, storm water management and reducing the strain on existing infrastructure capacity.

Materials & Resources (MR)

Promote the use of environment-friendly materials sourced from sustainable sources and recycling. Implement proper construction waste management with storage, collection and re-use of recyclables and construction formwork and waste.

Water Efficiency (WE)

Rainwater harvesting, water recycling and water-saving fittings.

Innovation (IN)

Innovative design and initiatives that meet the objectives of the GBI.

For more information, refer to www.greenbuildingindex.org

Which category do our sensors come under the GBI Criteria?

CO2 sensor

Energy Efficiency - Airconditioning System

Indoor Environmental Quality

CO sensor

Energy Efficiency - Ventilation In Carpark

Indoor Environmental Quality

Occupancy sensor

Energy Efficiency - Lighting