Batch IV

Leadership Course

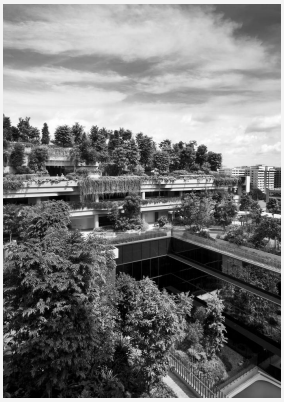
On High Performance Building



3D2N Trip
11 to 13 June 2025







Itinerary Booklet



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A Regional Benchmark for Building Performance

Indonesia and Singapore share similar tropical climates, presenting comparable challenges in sustainable development and energy efficiency. Achieving high-performance building standards, with optimized energy use and reduced environmental impact, is a shared priority.

Singapore applies high performance building principles with precision. From advanced HVAC systems and well-designed envelopes to smart building management systems, their projects demonstrate effective, measurable outcomes. GBC Indonesia aims to study these implementations closely.

Key strategies in Singapore include passive design, efficient active systems, life cycle assessments, and targeted use of renewables. The visit will explore quantifiable benchmarks such as Energy Use Intensity (EUI), Thermal Transfer Value (TTV), and low embodied energy materials.

Through this course, GBC Indonesia supports the adoption of high performance practices in Indonesia by providing direct exposure to real projects and technical approaches proven to work in our climate.

Purpose

This batch's course centers on High Performance Building. This program aims to provide Indonesian professionals with direct exposure to leading practices.



Best Practice

We intend to identify the specific strategies, regulations, and initiatives that have enabled the advancement of high performance building in Singapore. Understanding the frameworks employed by Singaporean entities to achieve their sustainability goals is a key objective.



Technology and Innovation

We are interested in examining the state of the art technologies, research endeavors, and innovative solutions applied in Singapore's high performance buildings, particularly in areas like energy efficient materials and intelligent building controls.



High Performance Building

Singapore's proficiency in developing high performance buildings is noteworthy. We seek to understand the core principles, design considerations, and operational methodologies underpinning these structures.



Learning and Application

This visit offers a valuable opportunity to learn from Singapore's experience and explore how their successes in high performance building can be adapted and applied within the Indonesian context. The goal is to acquire practical knowledge and establish connections that will contribute to the growth of sustainable building practices in Indonesia.

Who Should Join?

This excursion to Singapore invites registration from leaders and key professionals in Indonesia's built environment sector. A maximum of 30 participants can join this intensive learning experience.

This program welcomes individuals in executive roles, including **architects, engineers, developers, contractors, facility managers, and representatives from government and state-owned enterprises**. This diverse cohort will foster a rich environment for collaboration and shared learning about high-performance building.



By participating, you will engage in insightful discussions, learn from Singaporean experts, and gain practical knowledge of high-performance building implementation. Networking with peers will facilitate the exchange of ideas and the development of valuable connections within the industry. This participation will empower you to champion sustainable practices within your organizations and contribute to the advancement of high performance building in Indonesia.

In summary, this Leadership Course offers a unique opportunity for executives in the Indonesian building sector to deepen their understanding of high performance building in Singapore. With limited seats, registered participants will benefit from expert insights, peer networking, and knowledge sharing, ultimately driving sustainability within the industry.





What to Expect

This course is designed for professionals who want to understand how high performance buildings work in practice. You will not only be sitting in a classroom. You will be walking through real projects, asking direct questions, and learning from people who operate at every level of the building cycle.



Seven building visits across three days, each with clear technical takeaways



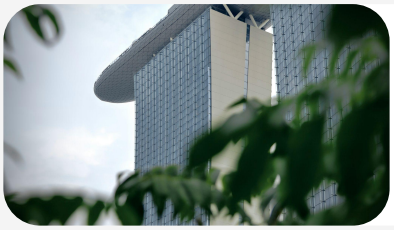
In depth discussions with developers, designers, engineers, and facility teams



Lessons from success and failure–what worked, and what did not



Context behind decisions made at both building and city scale



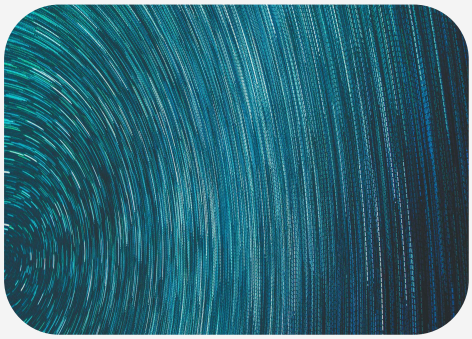
Site protocols that reflect how performance is maintained over time

Focus Areas

Participants will explore high performance buildings from the following perspectives:

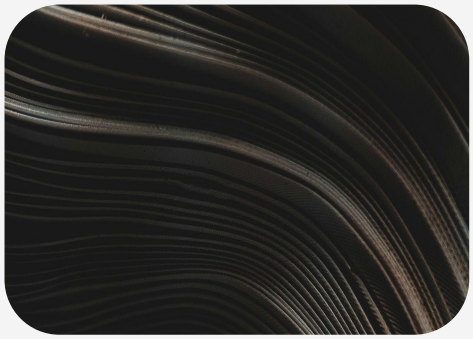
Energy

How buildings achieve energy excellence through efficient systems, renewable energy integration, and advanced management technologies.



Sustainable Materials

How materials are chosen for their environmental impact, longevity, and contribution to building performance.



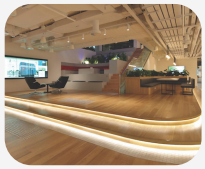
Health

How the design and operation of buildings contribute to occupant wellbeing through air quality, lighting, and overall comfort.



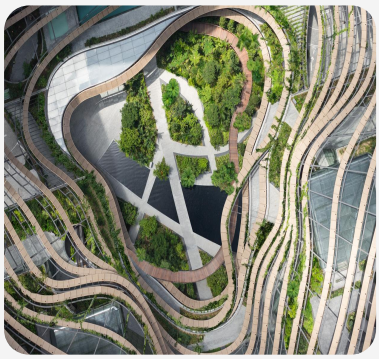
We will focus on both the combined performance of all three factors, and where necessary, examine them separately to understand the trade-offs and strategies involved.

Key Learning Sites and Activities

Marina One	Green Mark Platinum		1
Paya Lebar Quarter	Green Mark Platinum WELL Certified		2
Jones Lang LaSalle (JLL) Headquarters	Green Mark Platinum		3
BCA Academy	Green Mark Platinum WELL Certified		4
Kampung Admiralty	Green Mark Platinum		5
National University of Singapore	Green Mark Platinum Super Low Energy		6
Bukit Canberra (DP Architect)	Green Mark Platinum		7













Marina One

Green Mark Platinum

Mixed-Use District

7 Straits View, Singapore 018936

Marina One is an integrated development in the heart of Singapore's Marina Bay CBD, comprising two office towers, two residential blocks, and a retail podium. Marina One embodies a new generation of high - performance green buildings that merge urban density with biophilic design. The development is best known for its "Green Heart"—a lush, multi-level garden core that functions as a natural climate buffer.

Key Performance Areas:

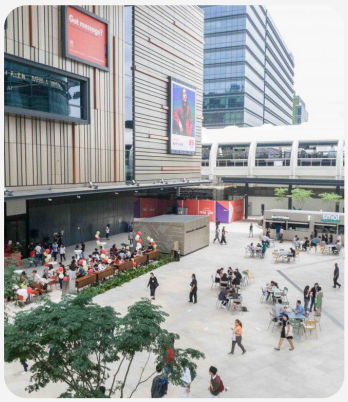
+ Achieves 35% energy savings compared to typical commercial buildings
+ Utilizes high-efficiency chillers and demand-controlled ventilation.
+ Achieve 5% water savings through: rainwater harvesting, condensate water reco
+ Advanced façade system with high-performance glazing



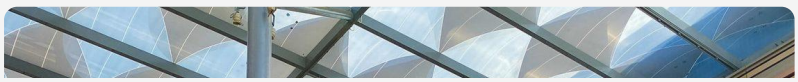












Paya Lebar Quarter

Green Mark Platinum

WELL Certified

Mixed-Use Commercial District

10 Paya Lebar Rd, Singapore 409057

Completed in 2020, the Paya Lebar Quarter is a purpose-built, mixed-use precinct in Singapore located between the CBD and the city's main airport.

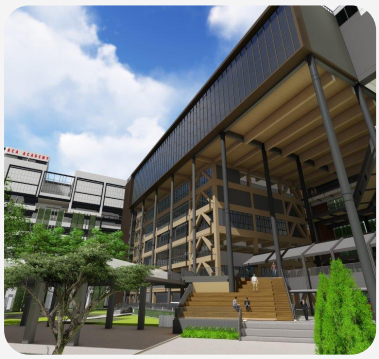
It features three grade-A, large floor-plate office towers, more than 200 retail units, and three high-end residential towers with a total of 429 units. It also sits above an MRT station that provides direct connectivity to the city's urban light rail network.

Key Performance Areas:

+ Incorporates biophilic design with over 100,000 sq ft of green spaces, including terraced rain gardens and vertical greenery.
+ Utilizes MERV 14 filters for improving air purification.
+ Features climate and flood mitigation infrastructure, onsite solar panels, and a food digester processing two tonnes of food waste daily.















BCA Academy

Green Mark Platinum

Zero Energy

Government Building

200 Braddell Rd, BCA Braddell Campus, Singapore 579700

BCA Academy is the education and research arm of the Building and Construction Authority (BCA), established in 1984. The campus spans 5 hectares with a building area of 25,000 square meters. It offers a range of built environment programmes that are rigorous and practice-oriented, improved through on-campus learning galleries and experiential learning features.

Key Performance Areas:

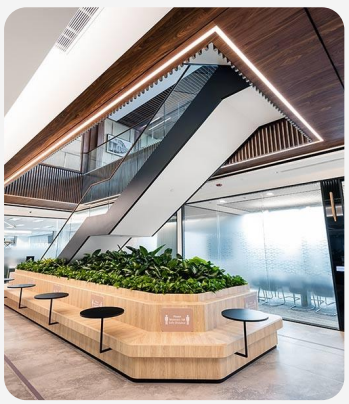
+ 7-stories building designed to achieve net zero energy consumption. Serves as a test bed for integrating green building technologies.
+ 15-stories building aiming to achieve super low energy performance,
+ The first to integrate three advanced game-changing construction technologies in a single project.

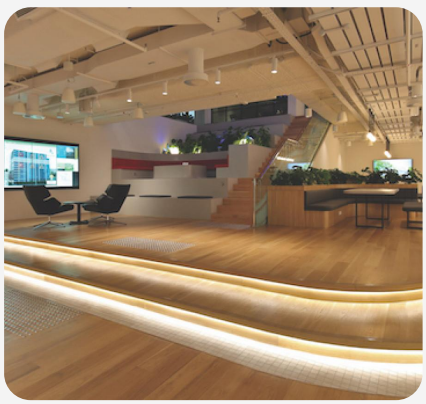














JLL Headquarters
Green Mark Platinum
WELL Platinum

Office Space

1 Paya Lebar Link, #10-08, Tower 2 Paya Lebar Quarter, Singapore 408533

JLL's Asia Pacific Headquarters at Paya Lebar Quarter (PLQ), Singapore, exemplifies a high-performance, sustainable, and people-centric workplace. This state-of-the-art facility consolidates JLL's operations into a single, Grade A office space, fostering collaboration and innovation.Advanced smart building technologies, including over 150 IoT sensors, monitor and optimize indoor air quality, lighting, and energy usage, contributing to a healthier and more efficient workspace.

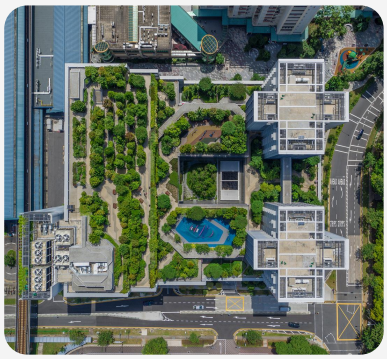
Key Performance Areas:

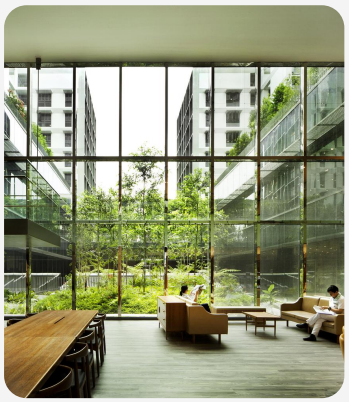
+ High efficiency HVAC Systems and smart sensors
+ IoT- enabled sensors and building management systems that optimize building performance in real-time.
+ Advanced air filtration and utilizes biophilic design



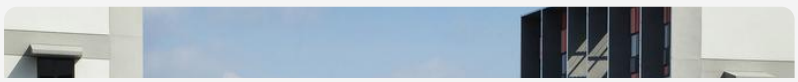












Kampung Admiralty

Green Mark Platinum

Mixed-Use District

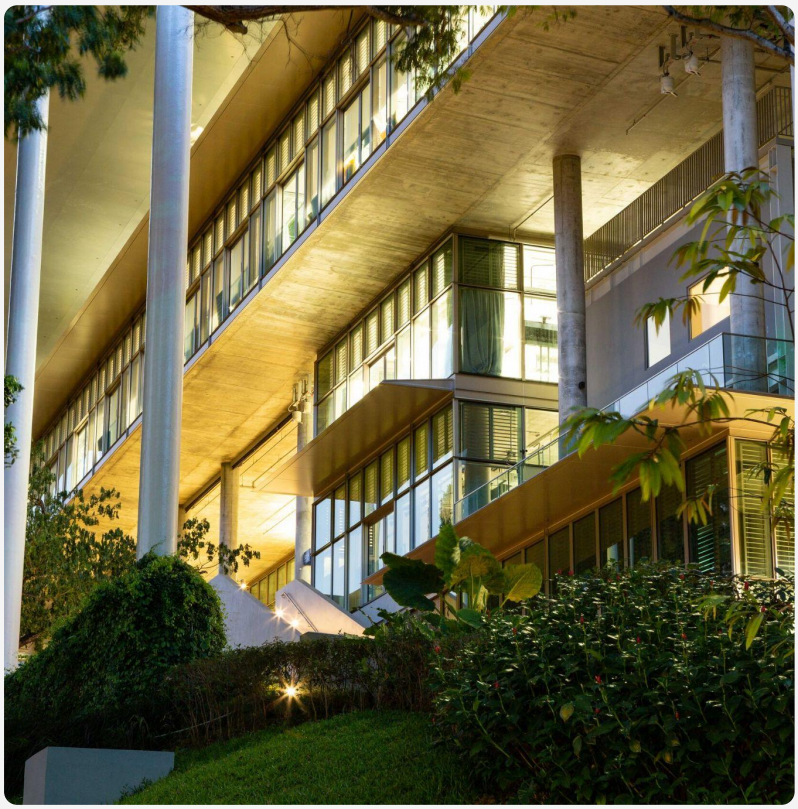
676 Woodlands Drive 71, Singapore 730676

Kampung Admiralty is Singapore's first integrated public development that combines housing for seniors with healthcare, community, retail, and park spaces in a single vertical complex. Designed as a prototype for aging-in-place, the development integrates social infrastructure with environmental performance. The building uses vertical layering to optimise land use while providing access to green space, daylight, and ventilation across all levels.

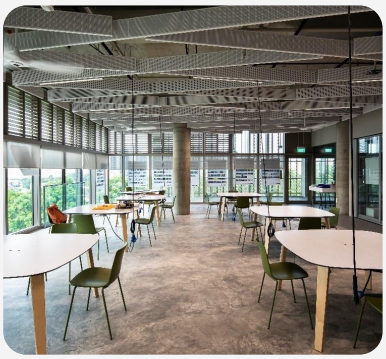
Key Performance Areas:

+ Extensive use of LED lighting throughout the entire development.
+ Photovoltaic PV panels on roof for energy generation.
+ Extensive greenery with community farming garden and green roof.
+ Innovative underground bicycle storage system.



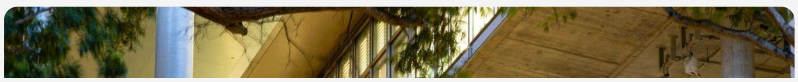












National University of Singapore - SDE 4

Green Mark Platinum Platinum Positive Energy

WELL Certified Gold

Research University

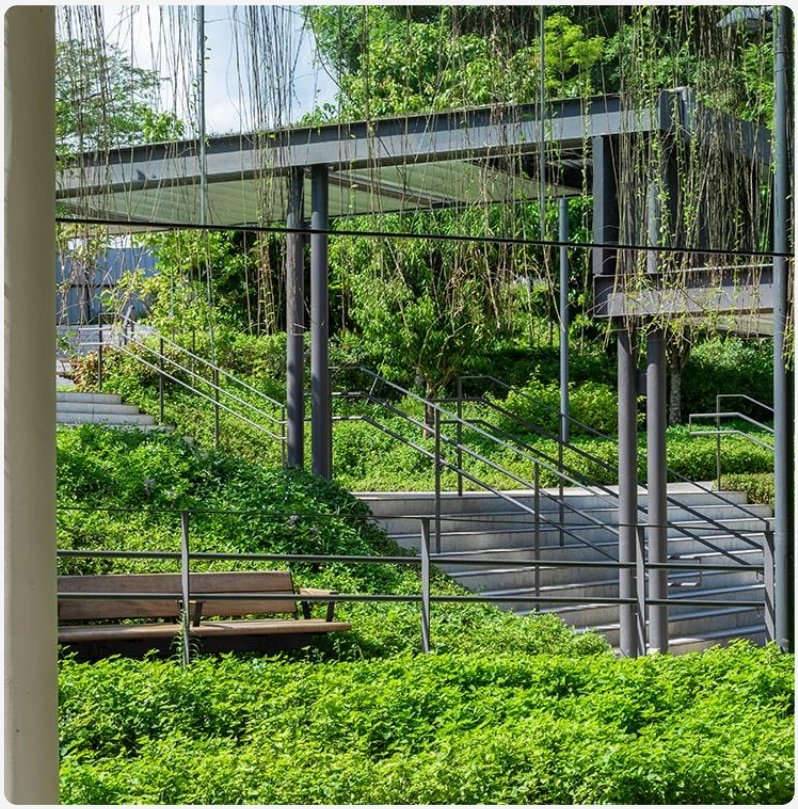
8 Architecture Dr, Singapore 117564

Perched on a hillock along Clementi Road near Singapore's southern coastline, SDE4 is a striking addition to the Design & Environment precinct, part of a larger campus redevelopment. This climate responsive structure spans over 1,500 square meters, encompassing design studios, open plazas, and diverse public spaces. With a strong focus on sustainability, the building seamlessly integrates tropical design principles, optimizing natural ventilation and incorporating thermal buffer zones and landscape balconies.

Key Performance Areas:

+ Produces as much energy as it consumes annually
+ 1,200 photovoltaic panels generate about 500 megawatt hours per year
+ East–west orientation minimises solar heat gain
+ Extensive use of engineered timber and recycled materials















Bukit Canberra

Green Mark Platinum

Community Hub

21 Canberra Link, Singapore 756973

Bukit Canberra is a 12 hectare integrated development in northern Singapore that combines community, sport, health, heritage, and nature. Built on a former naval base, the site was carefully restored and adapted to serve residents through facilities that promote well being and sustainability. It reflects Singapore's shift toward nature integrated developments that are functional, inclusive, and climate responsive.

Key Performance Areas:

+ Passive cooling, daylighting, and smart energy management
+ Rainwater harvesting and water efficient landscaping
+ Native planting and ecological connectivity integrated into site design
+ Public access to green space, sports, and wellness facilities

Tentative Itinerary

Day 1 | Wednesday, 11 June 2025

08:00 - 08:30	Registration & Opening M Tower
08:30 - 09:30	Lecture Session M Tower
09:45 - 10:00	*Travel to Site* By Bus
10:00 - 12:00	Building Tour NUS SDE
12:00 - 13:00	Lunch & *Ishoma** NUS Canteen
13:10 - 13:30	*Travel to Site* By Bus
13:30 -15:30	Building Tour BCA Academy
15:30 - 15:40	Closing Day 1







*4 min. walk from Labrador Park MRT Station (Circle Line)
*Lunch is at your own expense
Musholla located at SDE 3 Lvl. 4 Lt. 423-424

Tentative Itinerary

Day 2 | Thursday, 12 June 2025

08:00 - 08:30	Registration & Opening M Tower
08:30 - 09:30	Lecture Session M Tower
09:45 - 10:00	*Travel to Site* By Bus
10:00 - 11:30	Building Tour JLL Headquarters
12:00 - 13:00	Lunch & *Ishoma** Paya Lebar Mall
13:10 - 13:30	*Travel to Site* Walking Distance
13:30 - 15:00	Building Tour Paya Lebar Quarter District
15:00 - 15:30	*Travel to Site* By MRT
15:30 - 17:00	Building Tour Marina One
17:00 - 17:10	Closing Day 1







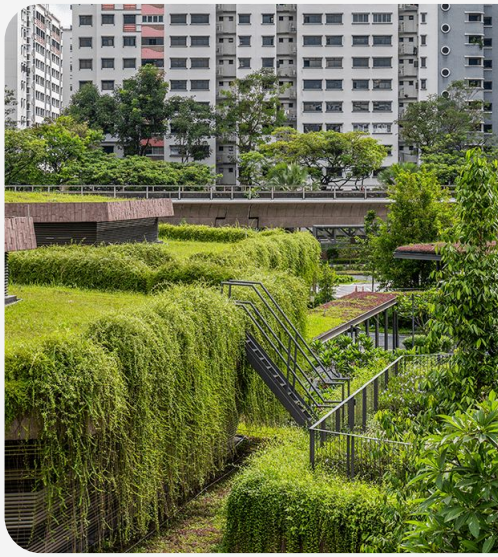
*Lunch is at your own expense
Musholla located at Paya Lebar Mall car park on B1A

Tentative Itinerary

Day 3 | Friday, 13 June 2025

08:00 - 08:30	Registration & Opening M Tower
08:30 - 09:30	Lecture Session M Tower
09:45 - 10:00	*Travel to Site* By MRT
10:00 - 11:30	Building Tour Kampung Admiralty
11:30 - 12:00	*Travel to Site* By MRT
12:00 - 14:00	Closing Lunch & *Friday Prayer** The Community Brew
14:00 - 15:30	Closing Tour Bukit Canberra







*Lunch will be provided
Friday prayer can be performed at Masjid Assyafah, located a 15-minute walk away.

About Our Facilitators



Totok Sulistiyanto

With 35 years of experience in energy research and conservation, Totok Sulistiyanto has played a key role in advancing energy efficiency in buildings and industries across Indonesia and ASEAN. Holding a master's degree in engineering science from Melbourne University, he has led PT. Narama Mandiri as Director since 2010 and has spent over two decades running a mechanical, electrical, and energy consulting firm.



Ario Prananto

Ario Nugroho is a certified GREENSHIP professional with a strong background in sustainable architecture and property development. As a Deputy Director of Green Financing at GBC Indonesia, he works to integrate green investment strategies into Indonesia's built environment.

Participation Details

Donation Fee:
Rp 8.000.000

48
Total KUM Points

What's **Included**:
- ✓ Green building excursion
- ✓ Lunch on the final day
- ✓ Travel booklet
- ✓ Participant kit
- ✓ Bus rental during the program
- ✓ E-Certificate
- ✓ Networking opportunities

What's **Excluded**:
- Ⓧ Flights
- Ⓧ Accommodation
- Ⓧ MRT transport card
- Ⓧ Personal meals during the trip

Secure your seat through
bit.ly/RegistLC4

Payment Terms & Refund Policy
All registrations and payments for this program must be completed through our official website at bit.ly/RegistLC4. We do not accept installment payments. Full payment is required at the time of registration to confirm your participation.

Payments are non-refundable. If you are unable to attend, you may request a substitute participant from the same organization. Requests for substitution must be submitted by email or text no later than 7 days before the program starts.

If the program is cancelled by GBC Indonesia due to unforeseen circumstances, a full refund will be issued. We are not responsible for any personal expenses, including flights or accommodation, incurred by participants.

By registering, you agree to these terms.

About Green Building Council Indonesia

Green Building Council Indonesia (GBC Indonesia) is an independent, non-profit organization dedicated to promoting environmental best practices and driving sustainable transformation in the building industry.

We focus on transforming the market and encouraging the adoption of green building principles across the building sector. This includes engaging professionals, developers, the building materials industry, government bodies, educational institutions, and environmental organizations.

GBC Indonesia operates through four core activities:

+ Market Transformation
+ Education & Training
+ Green Building Certification
+ Collaborative Programs

GBC Indonesia was initiated by 100 individual founders and 20 corporate founders, including developers, manufacturers, and state-owned enterprises. Together, they form a broad network that supports our work across sectors.

WORLD GREEN BUILDING COUNCIL

As an established member of the World Green Building Council (WorldGBC), GBC Indonesia is the only green building organization in Indonesia that is globally recognized.

Through this membership, GBC Indonesia aligns with international standards, contributes to global sustainability discussions, and participates in initiatives that drive the transition to a low-carbon, healthy, and resilient built environment worldwide.

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