Buildings and construction sectors are a significant source of greenhouse gas emissions. Globally, there is a push for greener designs and sustainable building materials. Learn more from our panel of experts as they share their experience and thoughts on the future of construction.

25 AUG 2022 | 9.30AM - 11.30AM

The built environment contributes significantly to climate challenges; however, because it is the main site of our cultural and economic activities, it could potentially make the largest contribution to decarbonization efforts. Buildings and construction sectors generate 40% of global greenhouse gas emissions. This number is even higher when accounting for embodied carbon in the production of materials, building, operations, and other construction-related activities. To move the needle, real estate must understand its impact and role it can play in being part of the solution. As the world’s largest design firm, Gensler’s impact in creating a resilient future is like no other design enterprise. GC3 is our commitment to make our portfolio carbon neutral by 2030 – 20 years ahead of the Paris Agreement goal. Cement will be around for the foreseeable future, so cement production itself needs to be decarbonized. It can’t be done without the help of our clients, colleagues, and industry. We are still working through our targets—partnering with our clients and you—to ensure the materials are durable and safe. Together, we can forge a path towards sustainability and economic resilience.

**TOWARDS NET ZERO CARBON**

**Diane Hoskins**
FAIA, NCARB, LEED
Co-CEO of Gensler

The built environment contributes significantly to climate challenges; however, because it is the main site of our cultural and economic activities, it could potentially make the largest contribution to decarbonization efforts. Buildings and construction sectors generate 40% of global greenhouse gas emissions. This number is even higher when accounting for embodied carbon in the production of materials, building, operations, and other construction-related activities. To move the needle, real estate must understand its impact and role it can play in being part of the solution. As the world’s largest design firm, Gensler’s impact in creating a resilient future is like no other design enterprise. GC3 is our commitment to make our portfolio carbon neutral by 2030 – 20 years ahead of the Paris Agreement goal. Cement will be around for the foreseeable future, so cement production itself needs to be decarbonized. It can’t be done without the help of our clients, colleagues, and industry. We are still working through our targets—partnering with our clients and you—to ensure the materials are durable and safe. Together, we can forge a path towards sustainability and economic resilience.

**THE SIGNIFICANCE OF A COMPREHENSIVE CARBON MEASUREMENT SCHEME FOR THE BUILDING INDUSTRY IN MALAYSIA: AN OVERVIEW**

**Ar. Sarly Ade Sarkum**
Past President of MalaysiaGBC
Chair for the Development of MalaysiaGBC Carbon Score (mCS)

Carbon is perhaps the most important contributor and relevant metric to climate change. Annually Malaysia produces more than 250.09 million tonnes of CO2 of which the building industry is a key contributor. Together, the building and construction industry is responsible for 39% of all carbon emissions in the world, with operational emissions (from energy used to heat, cool and light buildings) accounting for 28%. The remaining 11% comes from embodied carbon emissions, or ‘upfront’ carbon that is associated with materials and construction processes throughout the whole building lifecycle. This session will look at the development of the Net Zero Carbon measurement scheme which is geared to the needs of the Malaysian construction industry.

**EMBODIED CARBON IN CONCRETE**

**Clarisse Loh**
Head of Sustainability of YTL Cement

Strength, durability and versatility are some of the reasons concrete is one the most widely used building materials. But how does concrete fare as a sustainable building material? In this session we will discuss factors impacting the embodied carbon of concrete and YTL Cement initiatives in producing low carbon products to support sustainable construction.
SPEAKER PROFILE

**Diane Hoskins**  
FAIA, NCARB, LEED  
Co-CEO of Gensler

Diane is one of two Gensler co-CEOs whose collaborative leadership is fundamental to setting the company apart as a leading design firm. For her innovative leadership, Diane, along with Co-CEO Andy Cohen, ranks on Business Insider’s elite “Creators” list, a who’s who of the world’s 100 top creative visionaries. As a hands-on leader, Diane oversees Gensler’s global platform and its day-to-day operations, with some 6,000 people networked across 50 offices, serving clients in more than 120 countries. Diane is focused on Gensler’s global talent strategies, performance, and organizational development to ensure that we serve our clients with the world’s top talent. She is the catalyst for Gensler’s Research program, for which Diane is committed to delivering value to clients through strategies and innovations like Gensler’s Workplace Performance Index® (WPI).

A registered architect, she graduated from the Massachusetts Institute of Technology and holds an MBA from the Anderson Graduate School of Management at UCLA. Diane received an Outstanding Impact Award from the Council of Real Estate Women and is both a Regent of the American Architectural Foundation and a Fellow of the American Institute of Architects. Her insights have appeared in the Financial Times, Harvard Business Review, the Washington Post, and The Economist; and she was a featured speaker at Bloomberg Businessweek’s CEO Conference.

**Ar. Sarly Adre Sarkum**  
Past President of malaysiaGBC,  
Chair for the Development of malaysiaGBC Carbon Score (mCS)

Assoc. Prof. (Ind.) Ar. Sarly Adre Sarkum is an architecture futurist, sustainability proponent and design activist. He is currently the President of Pertubuhan Akitek Malaysia (The Malaysian Institute of Architects) for 2022-2023. Currently he helms the hybrid architectural design firm [SA]2 or Sarly Adre Sarkum Architecture Sdn. Bhd. which combines cutting edge architectural design solutions with extensive researched based explorative approach to solve challenging integrated design problems. The firm has won several international competitions and represented the country in several world class exhibitions. He is currently a Past President on Council in the Malaysia Green Building Council which is under the auspices of the World Green Building Council. He currently is the chairman for the GBI board, previously for the GBI Green Rating Tool. He was the editor in chief for ‘Architecture Malaysia’ magazine which is the premier architecture journal for the Malaysian Institute of Architects. He holds 2 degrees in architecture, one from the University of Liverpool UK and the other from University of Science Malaysia. Currently, Universiti Malaya, Malaysia’s top Ranked University, has also appointed him as an Associate Professor Industry for the University. He is currently the chair for the development of MalaysiaGBC Net Zero Carbon Grading System – Malaysia Carbon Score for the Malaysia Green Building Council.

**Clarisse Loh**  
Head of Sustainability of YTL Cement

In her 17 years of experience in the cement industry, Clarisse has held various positions and participated in projects in Indonesia, China, Philippines, Vietnam and Malaysia. She is currently the Head of Sustainability at YTL Cement’s Malaysia operations. YTL Cement is the leading cement manufacturer and ready-mixed concrete producer in the country. The Group aspires to help Malaysia build better and greener through operating sustainably, product innovation and people development. In addition to her Sustainability portfolio, Clarisse also heads YTL Cement’s waste management business, Geo Alam Environmental Sdn Bhd as the Director of Operations. Geo Alam helps industries transition from the traditional take-make-waste model towards the circular cradle-to-cradle model. Through this industrial symbiosis, cement plants and industries reduce carbon footprint and conserve natural resources.

AGENDA

<table>
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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker/Moderator</th>
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| 9.30am | Welcome and opening remarks                                          | Ar. Michael Ching  
Hons. Sec. of Malaysia Green Building Council                                       |
| 9.35am | Video presentation by YTL Cement                                     | Diane Hoskins  
Co-CEO of Gensler                                                               |
| 9.40am | Towards Net Zero Carbon                                               |                                                                                   |
| 10.00am | Q&A                                                                  | Diane Hoskins                                                                      |
| 10.20am | The Significance of a Comprehensive Carbon Measurement Scheme for the  | Ar. Sarly Adre Sarkum  
Building Industry in Malaysia: An Overview                                         |
| 10.40am | Embodied Carbon in Concrete                                           | Clarisse Loh  
Head of Sustainability of YTL Cement                                               |
| 11.00am | Q&A                                                                  | Ar. Sarly Adre Sarkum & Clarisse Loh                                               |
| 11.25am | Closing remarks                                                       | Ar. Michael Ching                                                                  |

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