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SGBC Bulletin – September 2024

# Developments in Low-Carbon Building Materials



Building elements such as foundations, structural frames and external works contribute the greatest amount of embodied carbon for two key reasons. Firstly, these elements contain carbon-intensive load-bearing materials such as concrete and steel, and secondly, the sheer volume of such materials involved in construction.

With an increased understanding of embodied carbon and its contribution to carbon emissions, the industry has been actively developing low-carbon building materials. From steel to concrete and timber, learn about the various developments in these areas.



## Steel, Concrete and Timber



### Learn about CO<sub>2</sub>-Suicom, a Carbon-Capturing Concrete Solution

Co-developed by Kajima, over half CO<sub>2</sub>-SUICOM's cement content is replaced with an environmentally friendly substitute. More importantly, this substitute hardens by capturing carbon dioxide in the air, thereby reducing the carbon dioxide emissions from manufacturing the concrete to net-zero or less.

[Read —](#)

[Kajima Launches Technology Transfer Office in Singapore, The Gear —](#)



**A Guide to Understanding Embodied Carbon in Buildings by SGBC**



**Almost Half of Global Companies are Willing to pay a Premium for Lower Emission Steel and Concrete**

**A white paper on the Potential of Hydrogen in Decarbonising Steel**

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**Reducing Embodied Carbon using Recycled Materials as Cement Substitute**

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[Full Report —](#)

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**A guide to Mass Engineered Timber (MET) by BCA**

[Read —](#)

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[More resources by IEF —](#)

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**Understanding differing Industry Perceptions of MET: Southeast Asia and Other Regions**

[Read —](#)

[Drivers of and Barriers to MET in Singapore —](#)

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## Industry Updates



### **Minister Desmond Lee speaks at the NUS Cities Symposium 2024**

Underscoring the theme of “Liveable Cities in Uncertain Times”, Minister Desmond Lee spoke about the importance of staying nimble and agile as a nation when planning for uncertainties and complexities. He further elaborated on the need to collaboratively create our liveable city.

[Press release —](#)

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**Changi Airport Terminal 2 Upgrading and Refurbishment Works completes Ahead of Schedule with the use of Digitalisation Technologies**

[Read —](#)



**URA offers Developers Gross Floor Area (GFA) Incentives to adopt Energy-Efficient Cooling Systems**

[Read —](#)



**Grants Available for SMEs: Explore Digital Solutions for Resource Optimisation and Carbon Management curated by IMDA**

[Carbon Management —](#)  
[Resource Optimisation —](#)



**Publication of Enforcement Actions on BCA website, including the Building Control Act and more**

[Read —](#)



**Standard Consultancy Agreement for Common Contract Form among Public Sector Construction-related Consultancy Services**

[Read —](#)



**Enterprise Singapore Calls for Public Comments on Proposed and Published Singapore Standards**

[Read —](#)

## Upcoming **Events**

**SGBC Events**



22 OCT 2024, 3:00PM – 5:00PM,  
LEARNING JOURNEY

**SGBC Learning Journey:  
Navigating M&E Solutions for  
Green Buildings**

[Register here —](#)

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24 OCT 2024, 2:30PM – 5:00PM,  
SEMINAR

**SGBC Seminar: Demonstrating  
the Value of Natural Ventilation  
& Mixed Mode Ventilation in  
Green Buildings**

[Stay tuned for more updates!](#)

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## Industry Events



28 – 30 OCT, CONFERENCE  
**TECHINNOVATION 2024:  
Discover, Connect, Collaborate**

[Find out more —](#)

[Register here —](#)

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14 – 16 NOV, CONFERENCE & EXPO  
**Green Building Congress India**

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[Register here —](#)

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