Built Environment Industry Transformation Map:
Sustainable Urban Systems

The third and final key transformation area of the refreshed Built Environment Industry Transformation Map (BE ITM) is Sustainable Urban Systems (SUS).

This key transformation area aims to achieve low emissions buildings and districts with efficient building management enabled by Integrated, Aggregated and Smart Facility Management.

In this SGBC Bulletin, read about how SUS will facilitate the acceleration of decarbonisation efforts in the industry for a more sustainable and liveable Built Environment.

Check out SGBC Bulletins on the two other transformation areas of the BE ITM here:

- Integrated Design & Planning (Oct 2022)
- Advanced Manufacturing and Assembly (Nov 2022)

New NUS Research Centre on Sustainable Urban Farming seeks high-tech solutions to boost Singapore's food security

— Read more

The New Role of Cities in the Climate Crisis: An Interview with Executive Director of UN-Habitat

— Read more

C40 Cities: How Nature is Combatting the Climate Crisis in Cities

— Read more

Turning the Vision of a Utopic Smart City into Reality

Urban Village Project From Denmark Makes the Case for Affordable and Sustainable

How Singapore is Pioneering the Way to Creating a Greener Urban Environment

— Read more

— Read more

Living

— Read more

Urban Sustainability: Governing Sustainable Transformations of Urban Social-Ecological-Technological Systems

— Read more

The Liveability Challenge 2023: S$2 million Prize to Spur Game-Changing Projects on Climate Change and Food & Nutrition

— Read more

How the Water Sector is using Innovative Tech to become more Resilient and Sustainable

— Read more

Other News / Sector Updates

BCA's Enhanced Design for Maintainability (DfM) Guides

Design for Maintainability (DfM) is one of three key pillars supporting the Facilities Management (FM) sector's transformation. Click the link below to view guides of maintainable design practices for municipal infrastructure and residential and non-residential developments.

— View BCA's Design for Maintainability Guides

In case you missed it: Read SGBC's November Member's Bulletin on Advanced Manufacturing and Assembly **here**.
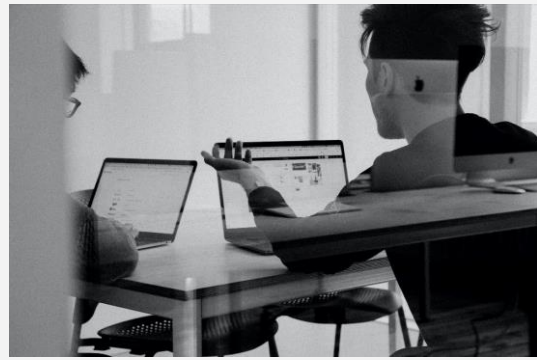

BCA Circular: Circular on Ex-Gratia Cost Sharing and Price Fluctuation for Structural Steel in ongoing Public Sector Construction

Contracts

Government Procuring Entities (GPEs) will allow a one-off ex-gratia cost sharing and material price fluctuation for structural steel as follows:

- For public sector ongoing construction contracts awarded before 1 Jan 2021 with substantial structural steel usage of 500 tonnes or more;
- Using the Import Price Index (IPI) of Manufactured Goods for 'Iron and Steel' as published by the Singapore Department of Statistics (DOS) as the material price index.

— Read more

ESG Calls for Public Comment on Singapore Standards

Enterprise Singapore (ESG) invites comments on Singapore Standards concerning:

- LED lamps safety specifications;
- Energy management systems;
- IoT interoperability for Smart Nation;
- Occupational health and safety management;
- Clean and green standards for urban farms;
- and more.

These Standards are based on an open system and the principle of consensus which are in accordance with the WTO & international standardisation requirements

— Read more

UN Report: Doubling Finance flows into Nature-based Solutions by 2025

The **second edition of the State of Finance for Nature report** reveals that nature-based solutions are still significantly under-financed.

— Read the report

IEA: Renewables 2022

This report forecasts the deployment of renewable energy technologies in electricity, transport and heat to 2027 while also exploring key challenges to the industry and identifying barriers to faster growth.

— Read more

CBRE: Cross-Generational Attitudes That Will Transform the Built Environment

In the first survey of its kind, CBRE polled more than 20,000 people worldwide earlier this year and has identified four overarching themes that will significantly

influence how consumers live, work and shop.

Adopting Circularity in the Built Environment to Achieve Regenerative Balance

This thought leadership piece unpacks key terminology around the circular economy, whole life carbon and regeneration, and brings this to life with built environment case studies.

SGBC Corporate Member, Samwoh Corporation Pte Ltd, opens Singapore's First Positive Energy Industrial Building

The energy consumption of the building is kept to a minimum

through numerous smart building management systems, such as the extensive use of sensors to optimise the temperature and humidity inside the four-storey structure.

Since the building generates more energy than it uses, at least 25 percent of the electricity generated by the Samwoh Smart Hub's 2,588 solar panels will also be returned to the national grid.

— Read more

FastTrack CityHack Singapore 2022: Results

FastTrack CityHack Singapore by SGBC Founding Member, AECOM, is a global hackathon series that presents a unique opportunity for participants with a passionate interest in advancing resiliency, livability and sustainability for cities.

This year's hackathon ended on a high note with three teams presenting fresh ideas that tackled issues such as decarbonisation, black swan events and healthcare emerging as winners.

— Read more

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