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19 May 2022

## **CIRCULAR TO PROFESSIONAL INSTITUTES/ ASSOCIATIONS**

### **IMPLEMENTATION OF NEW UNIFIED EMBODIED CARBON CALCULATOR (ECC) TOOL FOR INDUSTRY USE**

#### **Objective**

1 This circular informs the industry of the release of a new unified embodied carbon calculator to account for the upfront carbon and assess the embodied carbon of building materials for projects.

#### **New Unified Embodied Carbon Calculator (ECC)**

2 JTC, in collaboration with BCA and SGBC, commissioned National University of Singapore – Energy Studies Institute (NUS-ESI) to develop a unified Embodied Carbon Calculator customised for local industry use.

3 Through consultation with industry stakeholders, the key features of the ECC include:

- a. Capability to calculate the upfront carbon of building materials, with adapted and localised carbon emission factors
- b. Assessment tool to facilitate the reduction of embodied carbon of building materials and products

This tool will enable users to make informed decisions in the selection of low carbon building materials and products as part of decarbonisation efforts to lower the carbon footprint of projects.

## Implementation Timeline

4 The ECC was officially launched at the SGBC-REDAS Green Real Estate Trends Conference 2022 on 19 May 2022. It will replace the current BCA Carbon Calculator to streamline embodied carbon accounting and provide localised carbon emission factors for use under the Sustainable Construction section of the Code for Environmental Sustainability of Buildings (Edition 4.0). The tool will also be recognised under the BCA Green Mark's Whole Life Carbon section for projects to demonstrate embodied carbon reduction. The ECC will be hosted on the Singapore Green Building Council (SGBC) website at <https://www.sgbc.sg/resources/ecccalculator>.

## Capability Building

5 Aligned with the global emphasis on reducing and optimising carbon emissions, SGBC will be providing courses to upskill industry professionals' carbon capabilities and develop an ecosystem to raise the adoption of environmental product declarations (EPD) to support the built environment's low-carbon transformation. More information can be found at: [www.sgbc.sg/events/sgbc-courses](http://www.sgbc.sg/events/sgbc-courses)

## For Clarification

6 We would appreciate it if you could convey the contents of this circular to relevant members of your organisation. If you or your members have any queries concerning this circular, please do not hesitate to contact BCA through our online feedback form at <https://www.bca.gov.sg/feedbackform/> or SGBC at [certification@sgbc.sg](mailto:certification@sgbc.sg).

Thank you.



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