

Circular No.: BCA/WLC/2022-05-ES

Our Ref.: BCA ID 98.5.1

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

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.

Thank you.



ANG KIAN SENG
GROUP DIRECTOR
ENVIRONMENTAL SUSTAINABILITY GROUP
BUILDING AND CONSTRUCTION AUTHORITY
(BCA)



YVONNE SOH
EXECUTIVE DIRECTOR
SINGAPORE GREEN BUILDING COUNCIL
(SGBC)

DISTRIBUTION (via e-mail)

President

Association of Consulting Engineers Singapore (ACES)

Thomson Road Post Office

PO Box 034

Singapore 915702

President

Association of Property & Facility Managers (APFM)

110 Middle Road

#09-00 Chiat Hong Building

Singapore 188968

Registrar

Board of Architects (BOA)

5 Maxwell Road 1st storey

Tower Block MND Complex

Singapore 069110

Director

Land Planning Division

JTC Corporation

The JTC Summit

8 Jurong Town Hall Road

Singapore 609434

Group Director
Land Sales & Administration Group – Controller of Housing
Urban Redevelopment Authority (URA)
45 Maxwell Road
The URA Centre
Singapore 069118

Registrar
Professional Engineers Board, Singapore
52 Jurong Gateway Road #07-03
Singapore 608550

Group Director
Properties and Land Group
Housing Development Board (HDB)
HDB Hub
480 Lorong 6 Toa Payoh
Singapore 310480

President
Real Estate Developer Association of Singapore (REDAS)
190 Clemenceau Avenue
#07-01 Singapore Shopping Centre
Singapore 239924

President

Singapore Contractors Association Limited (SCAL)
1 Bukit Merah Lane 2
Construction House
Singapore 159760

President

Singapore Institute of Architects (SIA)
79 Neil Road
Singapore 088904

President

Singapore Institute of Building Limited (SIBL)
70 Palmer Road,
#03-09C Palmer House
Singapore 079427

President

Singapore Institute of Planners (SIP)
93 Toa Payoh Central #05-01
Singapore 319194

President

Singapore Institute of Surveyors & Valuers (SISV)
110 Middle Road
#09-00 Chiat Hong Building
Singapore 188968

Chief Executive

Singapore Land Authority (SLA)
55 Newton Road
#12-01 Revenue House
Singapore 307987

President

Society of Project Managers (SPM)
Macpherson Road P.O.Box 1083
Singapore 913412

Deputy Director

Survey and Land Division
Land Transport Authority (LTA)
1 Hampshire Road
Singapore 219428

President

The Institution of Engineers, Singapore (IES)
70 Bukit Tinggi Road
Singapore 289758

All CORENET e-info subscribers