

Presentation Structure

Context

The Committee

Development roadmap

Document structure and points of interest

Peer review process

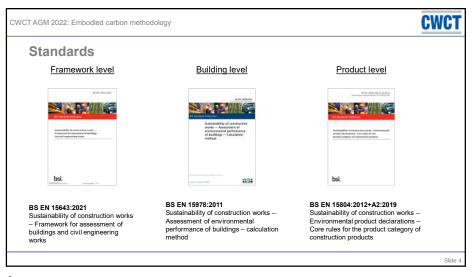
Case study update

Launch of the methodology!

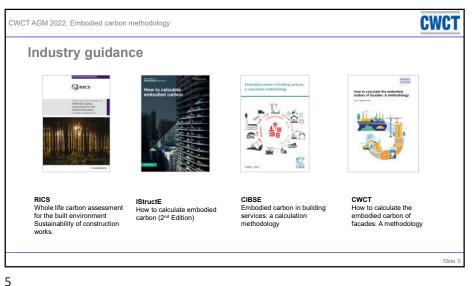
Next steps

We want to hear from you









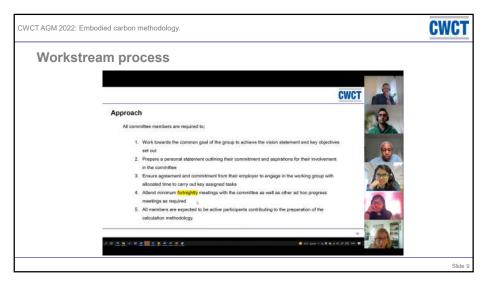
CWCT CWCT AGM 2022: Embodied carbon methodology The committee Anusha Badrinarayanan Anna Wendt Partner Duncan Cox, Senior Global Director Facades Associate, Sustainability Sustainability Engineer, Will Wild, Senior Facade Nilayamgode, Sustainability, Facade Consultant **Buro Happold**

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CWCT CWCT AGM 2022: Embodied carbon methodology **Key objectives** ▶ Develop consistent methodology for calculating embodied carbon in façade systems. ▶ Enable calculation of embodied carbon to be carried out on all projects. ▶ Encourage review of carbon impact in individual projects against industry targets. ▶ Ensure industry targets are stretching, realistic and developed from accurate data sets relating to façade systems. ▶ Enable evaluation of design decisions and comparison of material and system choices. Achieve net zero carbon on all building projects. ▶ Develop, or contribute to, database of carbon assessments for façade systems. 7

CWCT CWCT AGM 2022: Embodied carbon methodology **Development roadmap Embodied Carbon Sub-committee timeline** CWCT propose set up of sub-Convening of the group and carrying Template for document with Consultation on formulating focus topics. Engage with out case study contents + draft text Invitation to chair TOR and committee AUG SEPT OCT NOV DEC JAN FEB MARCH **FORTNIGHTLY MEETINGS** sustainability engineer appointed





Initial Case Study

First sub-committee task: for a case study building in London, calculate the embodied carbon of the facade for all life cycle stages

Product stage (A1 – A3)

Construction process stage (A4 – A5)

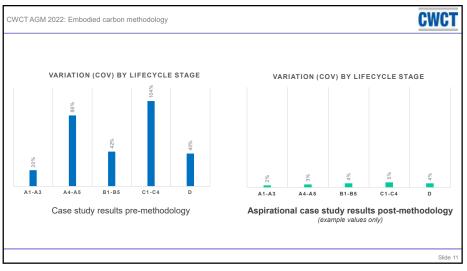
Use stage (B1 – B7)

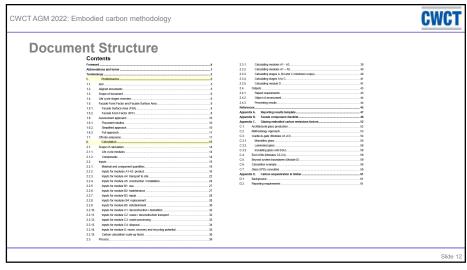
End of life stage (C1 – C4)

Benefits and loads beyond the system boundary (D)

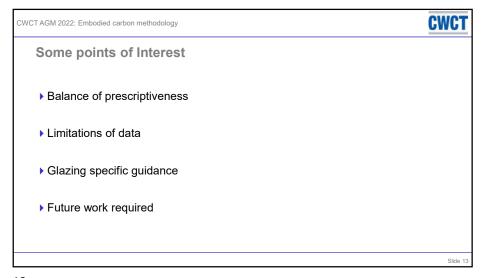
Side 10

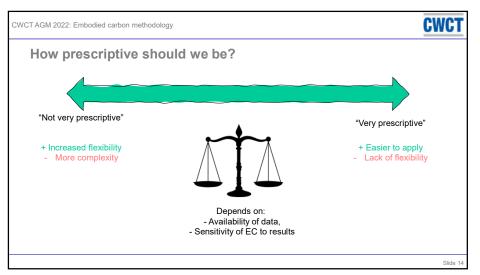
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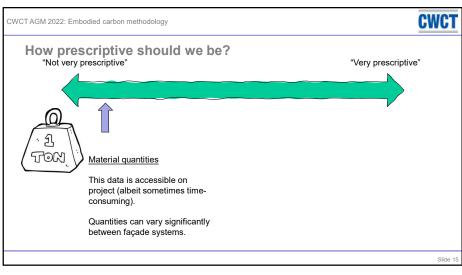


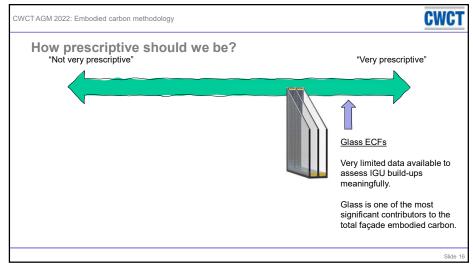




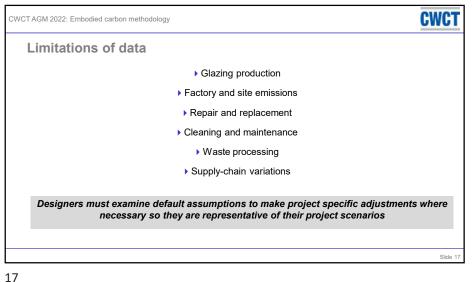


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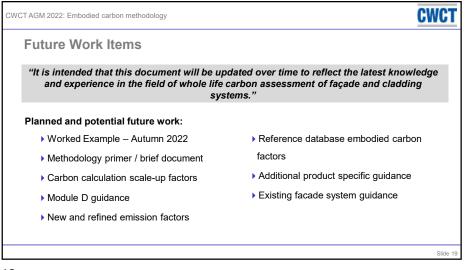


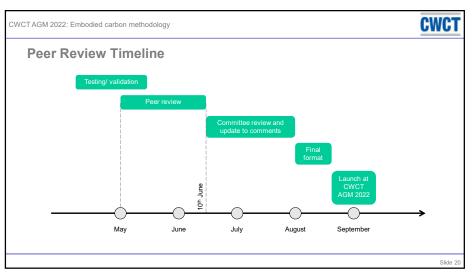




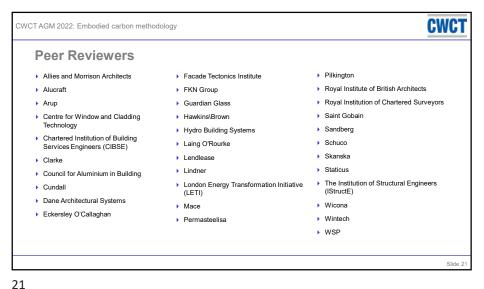
CWCT CWCT AGM 2022: Embodied carbon methodology Glazing build-up methodology Plans for other product specific ▶ Appendix C: methodology for calculating ECFs for guides? project specific glazing build-ups Why? ▶ Glazing's significant contribution to total facade embodied carbon Available EPDs are limited to a specific set of glazing build-ups ▶ The complexity of accounting for numerous materials and processes needs dedicated quidance

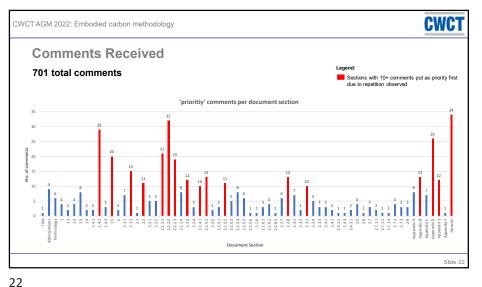
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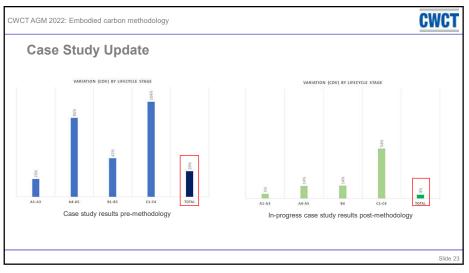


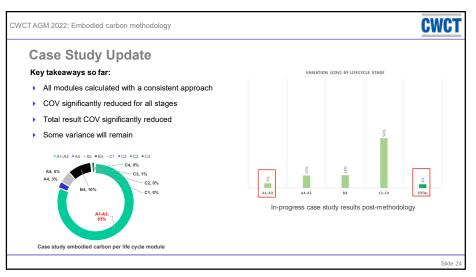
















CWCT CWCT AGM 2022: Embodied carbon methodology Key objectives achieved Enables calculation of facade embodied carbon Provides a consistent calculation methodology Encourages review of carbon impact against industry targets. Ensures industry targets set from reliable data Enables evaluation of design decisions Promotes contributions to carbon databases

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