

CARBON

DEFINITIONS

WHOLE LIFE CARBON

‘Whole Life Carbon’ emissions are the sum total of all asset related GHG emissions and removals, both operational and embodied over the life cycle of an asset including its disposal (Modules: A1-A5; B1-B7 (plus B8 and B9 for Infrastructure only); C1-C4). Overall Whole Life Carbon asset performance includes separately reporting the potential benefit from future energy recovery, reuse, and recycling (Module D).

EMBODIED CARBON

The ‘Embodied Carbon’ emissions of an asset are the total GHG emissions and removals associated with materials and construction processes throughout the whole life cycle of an asset (Modules A1-A5, B1-B5, C1-C4).

UPFRONT EMBODIED CARBON

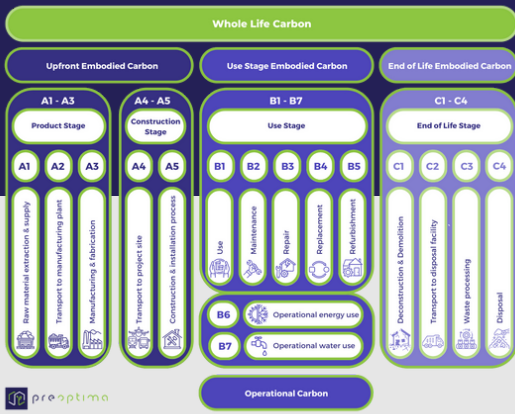
‘Upfront Carbon’ emissions are the GHG emissions associated with materials and construction processes up to practical completion (Modules A1-A5). Upfront carbon excludes the biogenic carbon sequestered in the installed products at practical completion.

OPERATIONAL CARBON - ENERGY

‘Operational Carbon – Energy’ (Module B6) are the GHG emissions arising from all energy consumed by an asset in-use, over its life cycle.

OPERATIONAL CARBON - WATER

‘Operational Carbon – Water’ (Module B7) are those GHG emissions arising from water supply and wastewater treatment for an asset in-use, over its life cycle.



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NET ZERO (WHOLE LIFE) CARBON

A 'Net Zero (Whole Life) Carbon' Asset is one where the sum total of all asset related GHG emissions, both operational and embodied, over an asset's life cycle (Modules A1-A5, B1-B7 (plus B8 and B9 for Infrastructure only), C1-C4) are minimized, meet local carbon, energy and water targets, and with residual 'offsets', equals zero.

NET ZERO EMBODIED CARBON

A 'Net Zero Embodied Carbon' asset is one where the sum total of GHG emissions and removals over an asset's life cycle (Modules A1-A5, B1-B5 and C1-C4) are minimized, meets local carbon targets (e.g.kgCO₂e/m²), and with additional 'offsets', equals zero.

NET ZERO UPFRONT CARBON

A 'Net Zero Upfront Carbon' asset is one where the sum total of GHG emissions, excluding 'carbon sequestration', from Modules A1-A5 is minimized, meets local carbon targets (e.g.kgCO₂e/m²), and with additional 'offsets', equals zero.

NET ZERO CARBON - OPERATIONAL ENERGY

A 'Net Zero Carbon – Operational Energy' asset is one where no fossil fuels are used, all energy use (Module B6) has been minimized, meets the local energy use target (e.g. kWh/m²/a) and all energy use is generated on- or off-site using renewables that demonstrate additionality.

NET ZERO CARBON - OPERATIONAL WATER

A 'Net Zero Carbon - Operational Water' asset is one where water use (Module B7) is minimized, meets local water targets (e.g. litres/person/year) and where those GHG emissions arising from water supply and wastewater treatment are 'offset'.