

CONSTRUCTING EXCELLENCE PRESENTATION

WINVIC CONSTRUCTION LIMITED | MARCH 2023



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

| WINVIC ATTENDEES



| Neave Thompson
Sustainability Manager

I AGENDA

- 1. SUSTAINABILITY STRATEGY
- 2. OPPURTUNITIES FOR COLLABORATION
- 3. NET ZERO CARBON BUILDINGS
- 4. ACHIEVING NET ZERO
- 5. GREEN SUPPLY CHAIN



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

OUR SUSTAINABILITY STRATEGY



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

OUR APPROACH AND VISION

We want to raise the bar for delivering sustainable buildings and infrastructure for our clients, while also leaving a lasting positive, social, environmental, and economic legacy.

“We remain committed to our ambition to become a Net Zero business by 2025”



With this in mind, we are rolling-out our updated Sustainability Strategy. This renewed roadmap builds upon our progress, impact to date and lessons learned.

It has been designed to deliver year on year progress across four key pillars which form the framework of our strategy and our business approach to sustainability.



SOCIAL



ENVIRONMENTAL



ECONOMIC



Sustainability strategy launched Dec 2022



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

OUR VALUES

The four core pillars at the centre of our strategy are:



PEOPLE
Putting People First



INNOVATION
Leading Through Innovation



PLANET
Protecting The Planet



COMMUNITY
Partners In Communities



EMPLOYMENT /
WELLBEING



PRODUCT SOLUTIONS



MATERIALS



WASTE AND
BIODIVERSITY



ENERGY AND
EMISSIONS



COMMUNITY



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

OUR SUSTAINABILITY ROADMAP

In December 2022 we launched our updated Sustainability Strategy. This renewed roadmap builds upon our progress, impact to date and lessons learned.



2012 - Started recording Winvic's operational carbon footprint for our head office

2019 - Started recording Winvic's operational carbon footprint for all our construction sites

2019 - Started measuring and reporting social value on projects

Launched Green Supply Chain

Delivered first Net Zero and EPC A+ rated industrial project

Started using battery back-up generators and alternative fuels and energy sources

Launched business Digital Strategy

Winvic Construction becomes a Net Zero Operational business



Winvic data collection for Scope 3 emissions (2nd/3rd phase supply chain)

Working towards a >50% reduction in Scope 3 emissions



100%

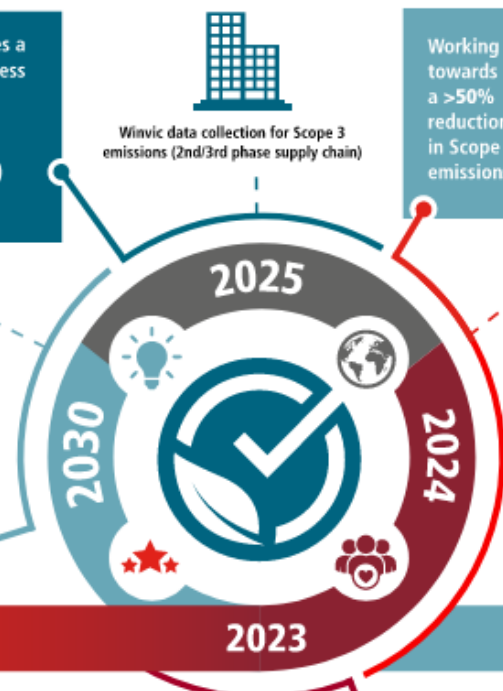
industrial projects assessed in line with Part Z of Building Regulations



Measures to reduce emissions from fuel use across all sites

Working towards a circular economy

25 projects to be Net Zero* subject to client specification



2001 •-----• 2019

2020

2021

2022

2023

2040



Setup a Sustainability Working Group

Established Winvic's Social Responsibility Strategy

Started working with first social enterprise

Launched our Sustainability Strategy and Net Zero 2025 ambition

Started measuring embodied carbon across all industrial projects

Tenth year of reporting operational carbon footprint



EcoVadis Gold rating achieved

Launched updated Sustainability Strategy

Implemented strategy to reduce emissions from fuel use

Working with supply chain to measure scope 1, 2 and 3 emissions



Complete first Net Zero operational industrial project



Winvic data collection for Scope 3 emissions (1st phase supply chain)

OPPORTUNITIES FOR COLLABORATION



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

OPPORTUNITIES FOR COLLABORATION CLIENTS



NET ZERO CARBON BUILDINGS



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

NET ZERO CARBON

BACKGROUND

- Efficiently delivering low carbon and energy efficient developments
- Offsetting the residual carbon emissions

OPERATIONAL CARBON EMISSIONS

- The greenhouse gas emissions from the energy consumption in the day-to-day running of a property (Stage B).

EMBODIED CARBON EMISSIONS

- The greenhouse gas emissions during the construction process from producing, procuring, and installing the materials and components that make up the structure of a building and beyond (Stage A-D).



Ascent Logistics Park



Tungsten, Warrington

$$\text{Whole life carbon} = \text{Operational carbon} + \text{Embodied carbon}$$

I PART Z – WHOLE LIFE CARBON

CARBON ASSESSMENT - Z1.

Whole life carbon emissions shall be assessed and reported for the building and any other parts of the project where Building Regulations apply.

CARBON EFFICIENCY - Z2

Reasonable provision shall be made for the minimisation of whole life carbon emissions by:

- a) Minimising upfront embodied carbon; and
- b) Where an item provides whole life carbon benefit, this is taken into account

Requirements Z1 and Z2 only apply to projects with a gross internal area of more than 1000m² or that create more than 10no. Dwellings

Z1 will apply to buildings other than dwellings from 1 January 2023 and dwellings from 1 January 2025

Z2 will apply to all buildings from 1 January 2027



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

NET ZERO CARBON BUILDINGS

The purpose of a Net Zero Carbon Assessment is to develop a pathway to a Net Zero Carbon footprint. 'Net Zero Carbon' indicates the success of effectively delivering zero emissions from a project through residual carbon reduction and then carbon offsetting the remaining carbon emissions.

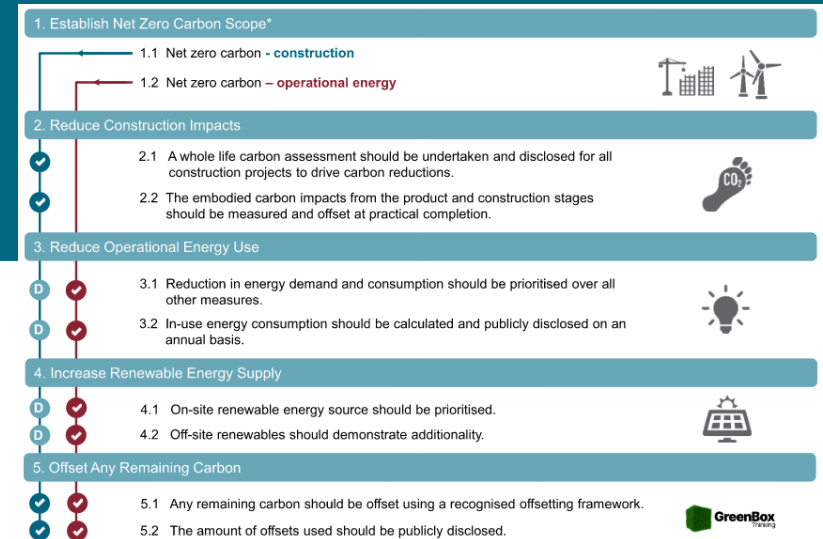


UKGBC FRAMEWORK

- Winvic is a member of the UK Green Building Council
- Verifying Net Zero projects with UKGBC

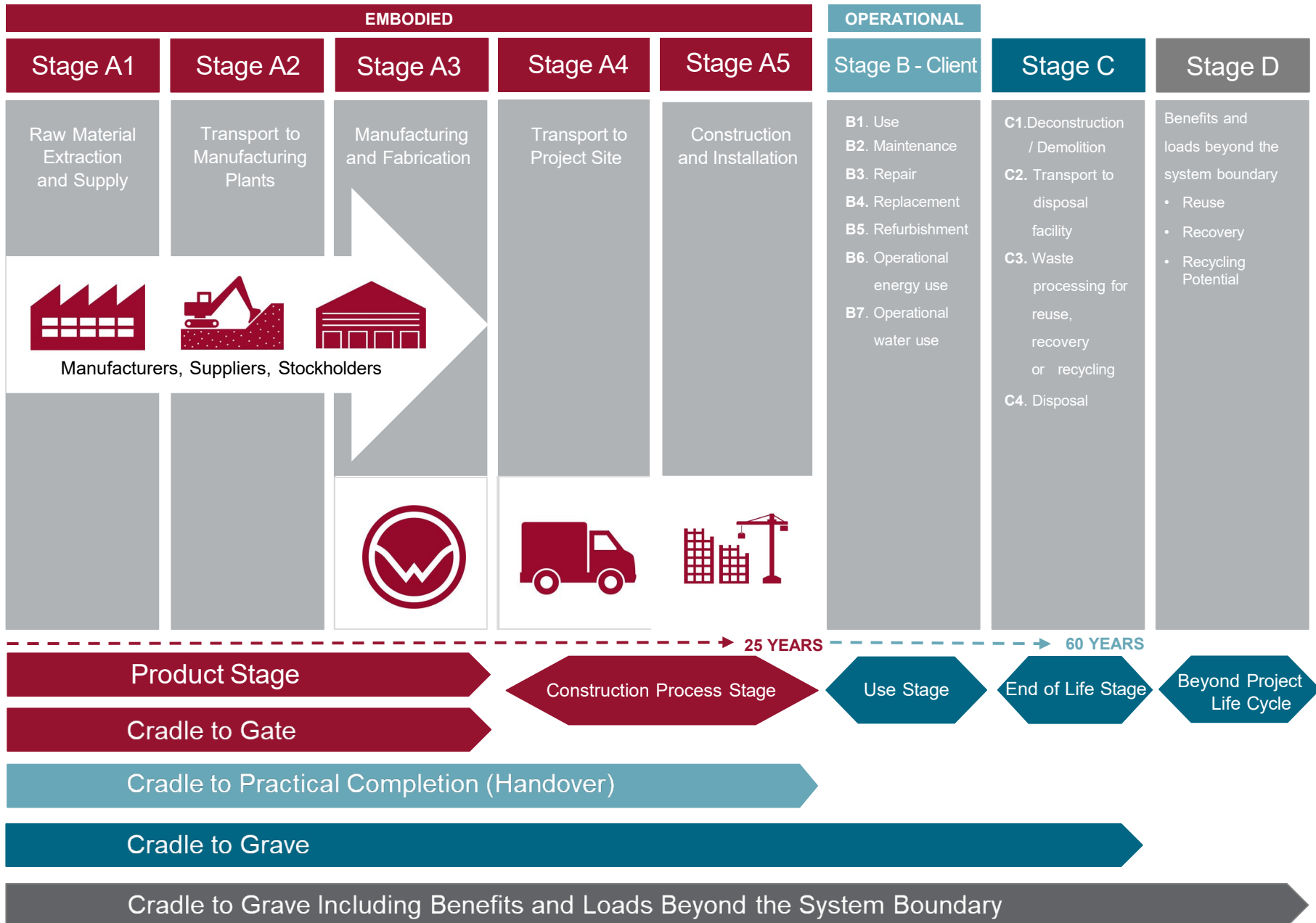
Winvic follow the UKGBC framework for Net Zero carbon for operational energy and in construction.

- The framework defines 'Net Zero Carbon' buildings
- Sets standards and process to ensure Net Zero carbon buildings remain credible
- Gives guidance on renewable energy procurement and carbon offsetting
- Outlines a methodology to measure and ensure accountability
- Recognises the need to limit global warming to 1.5 degrees



NET ZERO CARBON BUILDING ASSESSMENTS

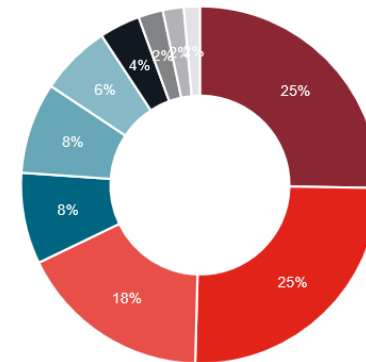
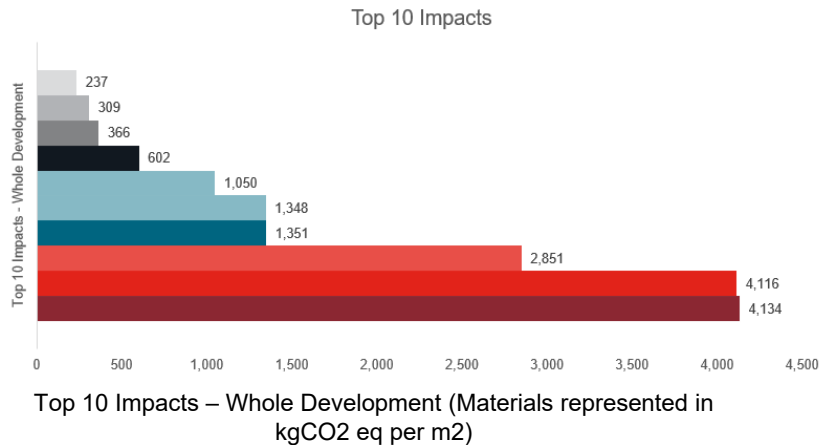
Whole Life Carbon Assessment | Life Cycle Stages EN 15978



CARBON CALCULATOR

As a business Winvic has committed to reducing the CO2 emissions in our constructed projects in our Updated Sustainability Strategy and so have developed a method of measuring the embodied carbon associated with stages A1 to A5 to enable us to deliver 'Net Zero Carbon buildings'.

- Assessments at 3 key stages – concept design to practical completion
- Final calculations breakdown the whole life carbon emissions of a building



TOP 10 CARBON INTENSIVE ELEMENTS

1. Lower floor construction
2. Steel frames
3. Special surfaces and pavings
4. Local electricity generation systems
5. Unclassified / other
6. Roofs
7. Space heating and airconditioning
8. Standard foundations
9. External and enclosing walls above ground level
10. Roads, Paths and pavings

I ACHIEVING NET ZERO



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

ACHIEVING NET ZERO



TRANSPORT

Shift to zero emission vehicles, both on site and employee commuting



WASTE

Reduce, reuse, recycle



ENERGY

- Improve energy efficiency with greener buildings from concept and design stages
- Winvic will be installing renewable energy on-site to be used for the construction phase for elements such as cabins, welfare facilities and tenant requirements (as required)



CONSTRUCTION

- Invest in low carbon materials
- Design out carbon
- Invest in the circular economy, by procuring recycled and reused materials where possible
- Avoid idling
- Source materials locally to reduce transport emissions
- Source plant and equipment that operate on renewable energy
- Reduce plastic used for deliveries to sites



INNOVATION

Green technology and innovation



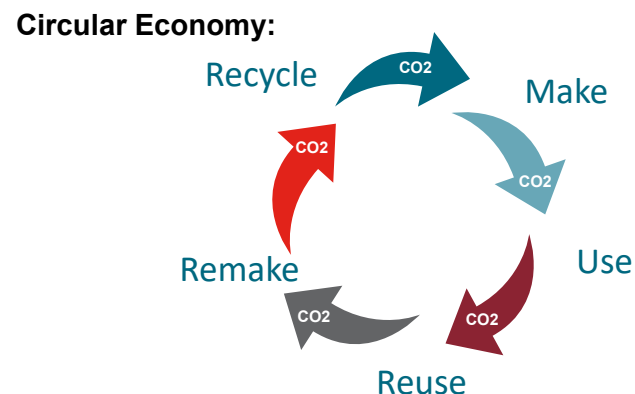
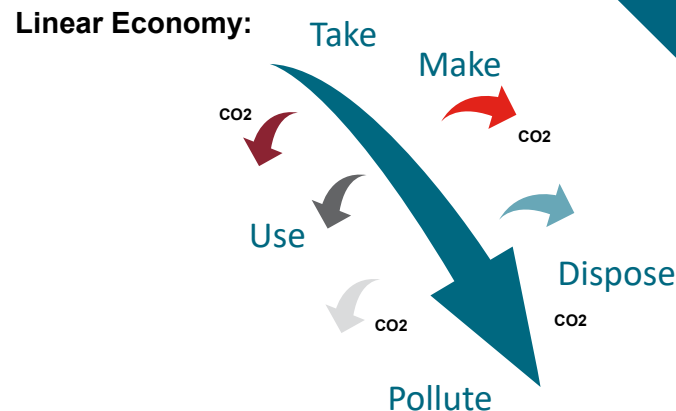
winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

CIRCULAR ECONOMY

As a business we encourage our supply chain partners to invest in the circular economy, where materials and resources are used in circulation and waste is kept to a minimum.

Promoting a circular economy and decarbonisation through following the **five stages of waste reduction**:

- 1. Reduce** – Assess the environmental impact of all operations, implement reductions in through design and manufacture where possible to eliminate unnecessary materials or waste being brought to site.
- 2. Reuse** – Incorporate sustainable, environmental considerations through design and end of life. Prolonging the life of whole items/ materials or parts of it.
- 3. Recycle** – Firstly, minimise waste on site and then appropriately segregate and dispose of recyclable materials.
- 4. Recover** – Regeneration or reclaiming materials
- 5. Disposal** – Most waste items should have found suitable solutions via the above stages. Disposal stage comprises anything that cannot be recovered.



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

I GREEN SUPPLY CHAIN



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

GREEN SUPPLY CHAIN

We rolled out our updated Sustainability Procurement Framework (SPF), which assists us to source materials more sustainably, ethically and where possible locally.

Going beyond this, we have created a Green Supply Chain (GSC) forum in which the sustainability team work collaboratively with a set of suppliers whose carbon reduction is crucial to us achieving our Net Zero ambitions.

COLLABORATION IS KEY

We are working collaboratively with our Green Supply Chain partners to develop innovative and sustainable product solutions through researching new methods of construction and technologies with carbon and energy efficient materials.

The ultimate goal is to have the lowest embodied carbon emissions throughout the life cycle of a project, considering design, labour, and instalment techniques.

WORKSHOPS

Through workshops we are exploring ways we can work together to drive down operational and embodied carbon emissions with our Green Supply Chain.

These workshops look at how we can make significant progress towards ensuring Net Zero becomes reality by focusing on procuring sustainable, renewable and recycled materials and work with our supply chain to develop innovative and sustainable product solutions.



May 2022 Green Supply Chain Workshop hosted by Winvic



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE

ENVIRONMENTAL PRODUCT DECLARATION (EPDS)

- A document that transparently communicates the environmental performance or impact of any product or material over its lifetime.
- EPDs are used in lifecycle assessments and detail carbon factors for element of a building from extraction, installation to end of life.
- EPDs are based on calculations from ISO 14040 and 14044.
- Verification of an EPD must go through an independent third party. Winvic accept EPDs which are supported by the BRE covering all stages from Life Cycle Stages (EN 15378) A1- D.
- Data must be based on any 12-month period within the last five years.



QUESTIONS?

INNOVATION



Economic, Social,
Environmental and
Cultural Wellbeing



COMMUNITY

Happy, Safe, Healthy and Inclusive

PEOPLE



PLANET

Protecting The Planet



winvic
DOING IT RIGHT.
FOR A SUSTAINABLE FUTURE