





H+H UK Ltd is a well-established manufacturer with over 75 years of experience, recognised as a leader in sustainably produced materials for the construction industry. Driven by a clear commitment to achieving net zero carbon emissions by 2050, the company has integrated ESG (Environmental, Social, and Governance) principles across all areas of its operations, from supply chain management and manufacturing processes, to initiatives that promote biodiversity.

The company's UK Roadmap outlines strategic efforts to reduce emissions and improve sustainability performance. These initiatives focus on raw material sourcing, technological upgrades, land stewardship and close collaboration with both customers and suppliers. Notably, 85% of H+H's Scope 3 emissions are linked to raw materials, prompting active engagement with suppliers to drive down carbon impact throughout the value chain.

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Calm J Fasyth

Calum Forsyth
Managing Director, H+H UK Limited





H+H International was the first manufacturer of aircrete to have science-based targets approved in line with the ambitious **1.5°C global scenario**. Our carbon emission reduction targets are third-party approved and in line with the climate goals of the Paris Agreement: to limit global warming to well below 2°C above pre-industrial levels.

H+H International has committed by 2030 to reduce absolute Scope 1 and 2 greenhouse gas (GHG) emissions by 46%, from a 2019 base year and to reduce Scope 3 emissions by 22% per m³.

H+H UK's own goals support this ambitious commitment as we plan by 2030 to reduce our emissions intensity* by 50%, including Scopes 1.2 and 3.

*Emissions intensity: emissions per unit of product measured in ${\rm kgCO_2e/m^3}$

H+H International Goal



46%

reduction in absolute Scope 1 and 2 GHG emissions by 2030

22%

per m³ reduction

in Scope 3 emissions by 2030

H+H UK Goal



50%

reduction in emissions intensity for Scopes 1, 2 and 3 by 2030

H+H UK Emissions Intensity Roadmap





Target Intensity 50%





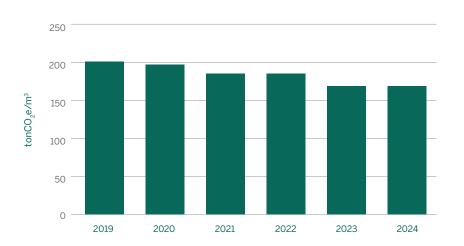
At H+H UK, we believe that a **cradle-to-grave perspective** is essential to truly assess a product's environmental impact. Looking at just one stage in the process doesn't provide the full picture.

As part of a broader supply chain, our own manufacturing accounts for only a portion of our products' embodied carbon. That's why we actively collaborate with our cement and lime suppliers to support their decarbonisation goals.

We've set an ambitious roadmap for reducing carbon emissions within our manufacturing operations. While change won't happen overnight, we're committed to meeting key milestones along the way. Our short-term target is to cut carbon emissions per block by 50% by 2030 (Scopes 1, 2, and 3), using 2019 as our baseline.

We've already made measurable progress. Our second published roadmap builds on these achievements, and current efforts, both in-house and with supply partners, are expected to drive further significant reductions in CO₂ emissions.

Current Progress: Annual Carbon Emissions (Combined Scopes 1, 2 & 3)



We join our parent company in our commitment to achieve net-zero emissions in our operations and products by 2050.

Scope 1

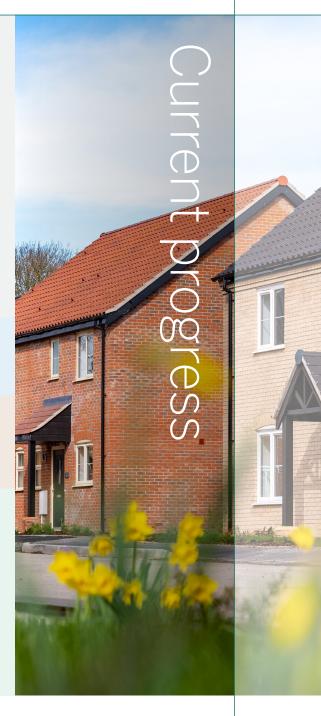
Direct emissions from sources owned and controlled by H+H UK.

Scope 2

Indirect emissions that are generated on our behalf, e.g. from the production of purchased electricity.

Scope 3

Emissions that the company is indirectly responsible for, e.g. from the manufacture of raw materials and distribution of finished goods.





Reducing our Scope 1 emissions



Gas efficiency improvements

All primary boilers are **hydrogen compatible** and have significantly

reduced gas usage,

equating to a reduction in CO₂ emissions of over

tonnes annually and NOx emissions reduced by 30%.



Process efficiency optimisation

We are improving the utilisation of waste energy in the production of Celcon

Blocks to reduce our energy demand.

This and other process changes will be adopted across

all sites.



Electric vehicle rollout

94%

of our car and van fleet is hybrid at a minimum.

8 forklift trucks

changed from diesel to

electric.

All new clamp trucks feature more efficient diesel engines and are **HVO compatible**.

Scope 1 emissions

Reducing our Scope 2 emissions



Pollington wind turbine

We generated

of our entire UK electricity consumption in

2024 via our wind turbine.



Using 100% renewable energy

100%

of the **electricity needed to manufacture Celcon Blocks**is acquired from

renewable sources.



Improving electrical efficiency

Replacing lighting with more energy efficient

LEDs

is reducing our electricity usage by

200,000

Scope 2 emissions



Reducing our Scope 3 emissions

In 2024, at least 85% of the carbon emissions associated with H+H aircrete were attributed to our value chain, with the biggest contribution from lime and cement.

Reducing Scope 3 emissions is instrumental in achieving our carbon reduction ambitions. To reach our 2030 goal, Scope 3 is expected to contribute a 41% reduction to our total emissions intensity.

We are proud to be working closely with our suppliers who have robust plans in place to reduce their own emissions through innovative carbon reduction schemes.

Singleton Birch



Singleton Birch is a member of MPA Lime

which represents the UK's manufacturers of lime products. MPA Lime members have an **ambitious shared** goal to reach

net negative CO, emissions by 2040.



Singleton Birch is also taking an **innovative approach** to reducing carbon emissions by partnering on several projects including plans to build a

Hydrogen Electrolyser

in conjunction with **Centrica Energy Storage Limited** to allow partial fuel switching of their kilns to

Green Hydrogen.



In 2024,

Singleton Birch produced

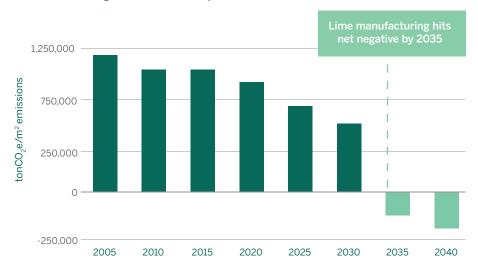
99.4% of their electricity through

anaerobic digestion,

a process by which organic matter is broken down to produce biogas for electricity, reducing the carbon emissions associated with electricity usage.

emissions

MPA Lime Net Negative 2040 Roadmap





CEMEX UK

In line with H+H International,

CEMEX has validated

2030 science-based targets to meet a

1.5°C scenario.

In Europe and from a 1990 baseline

CEMEX has a target

to reduce by

its CO, emissions

(kgCO₂e/tonne cementitious material).



In the UK, CEMEX uses

alternative fuels

to part-replace fossil fuels used in the production of its cement, with a

78%

(on mass or energy basis) alternative fuel usage rate.



41% reduction achieved

in CO₂ emissions (kgCO₂e/tonne cementitious material)

in the UK in

2022.



Climafuel®

is used along with other alternative fuels at CEMEX UK's Rugby Cement Plant.

The biomass content of Climafuel® means

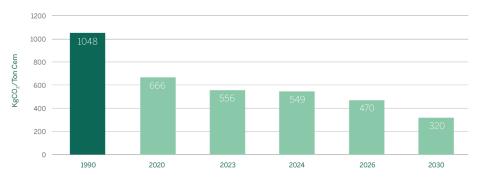
GHG

emissions

are significantly reduced, improving the embodied carbon of its cement products.

missions

CEMEX CO₂e per ton of Cementitious Material (All Products)





In addition to reducing our carbon emissions, H+H UK is committed to reducing the impact of our operational processes with regards to water usage, waste generation and the utilisation of packaging materials.

H+H UK recognise that our procurement decisions will have impacts on the wider environment. As a result, we endeavour to maximise the use of recycled and recyclable packaging materials, thereby reducing demand on virgin plastics.

Water



We currently

recycle 60%

of our fresh water and have **goals to reduce** water intensity, minimise mains water usage and further improve water recycling.



We can tak

over 60%

of our water from the **borehole and canal** in line with our water extraction permits which avoids the carbon emissions associated with using processed mains water.

Waste



Since 2022

Zero waste to landfill policy.



When there is **waste aircrete** produced from the manufacture of Celcon Blocks.

100% is recycled.

Packaging

Stretch wrap with at least

30%

recycled plastic and is 100% recyclable

Banding with

100% recycled plastic and

100% recyclable

All wooden pallets

100%
FSC certified timber

and reused where possilbe

Optimising packaging design - reducing thickness by

30%





EPDs

EPDs are independently verified Life Cycle Assessments (LCAs).

They provide the building blocks for comparing the whole life environmental performance of a product or whole projects in terms of environmental impact.

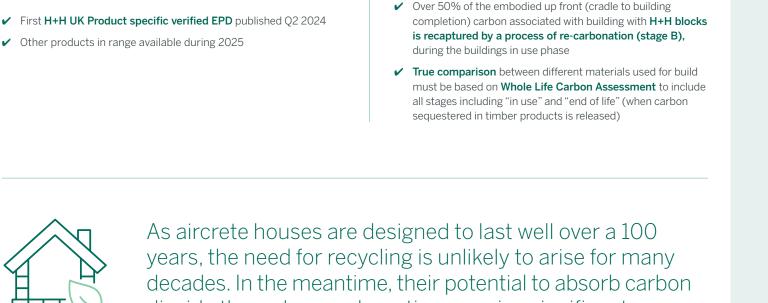
H+H UK are using LCA tools to track and forecast the decarbonisation impacts of our production processes and supply chain, supporting improvements in our EPD values and helping us stay on target towards achieving our decarbonisation ambitions.

- ✓ First H+H UK Product specific verified EPD published Q2 2024



Embodied carbon

All construction products must declare Product Stage (A1-A3), End of Life (C1-C4) and Beyond (D) covering recovery, re-cycling and re-use. Any product containing biogenic carbon CANNOT omit stages C1-C4 and D (e.g., timber products with older EPDs do this and ignore release of sequestered carbon at stage C). Newer timber EPDs do give values at Stage C (as they must) but the impact is played down by industry marketing which only refer to upfront carbon Whole Life Carbon Assessment for buildings will consider all stages.





dioxide through re-carbonation remains significant.





Explore

alternative transport fuels throughout our distribution network.



Establish

hydroger

compatibility at our plants:

our new gas burners are compatible with hydrogen as a base fuel.



Explore the incorporation of more

eco-friendly raw materials

in our production process.



Continue to investigate the

use of additives to

reduce our water demand.



Continue with our

biodiversity action plan

to protect and enhance the natural environment and biodiversity at our plants.



Move forward with our

participation in hydrogen

consortiums

currently East Coast Hydrogen in the north of the country and Capital Hydrogen in the south.

Accreditation & Certification



Environmental Management System



Quality Management System



Energy Management System



Occupational Health & Safety Management System



What's



Forward Looking Statements

This Sustainability Roadmap contains forward-looking statements. Statements are subject to risks and uncertainties as various factors, many of which are beyond the control of H+H, may cause planned developments and actual results to differ materially from the expectations expressed here.

H+H is not liable for any direct, indirect, or consequential damages whatsoever resulting from loss of use, data, or profits, whether through action of contract, negligence or other action arising from or in connection with the use of information in this document.

H+H UK Limited

Celcon House Ightham Sevenoaks Kent TN15 9HZ

Telephone: 01732 886333 Email: info.uk@hplush.com

hhcelcon.co.uk



www.hhcelcon.co.uk Sales 01732 886444 Technical 01732 880580









H+H UK Ltd is a long-established manufacturer with over 75 years of experience, proudly leading the way in sustainably manufactured product within the construction industry. With a clear commitment to achieving net zero carbon emissions by 2050, H+H has embedded ESG (Environmental, Social, and Governance) principles into every aspect of its operations—from supply chains to manufacturing processes and biodiversity initiatives.

The company's UK Roadmap outlines strategic efforts to reduce emissions and improve sustainability performance. These initiatives focus on raw material sourcing, technological upgrades, land stewardship and close collaboration with both customers and suppliers. Notably, 80% of H+H's Scope 3 emissions are linked to raw materials, prompting active engagement with suppliers to drive down carbon impact throughout the value chain.

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