

PADESWOOD CCS

Padeswood carbon capture and storage





By 2029, we are set to produce evoZero cement at our Padeswood site, setting a crucial milestone in decarbonising the construction industry.

Carbon capture and storage (CCS) captures carbon dioxide produced during cement manufacture and before it enters the atmosphere, transports it by pipeline, storing it safely under the seabed. It is a safe and proven technology that has been around for many years.

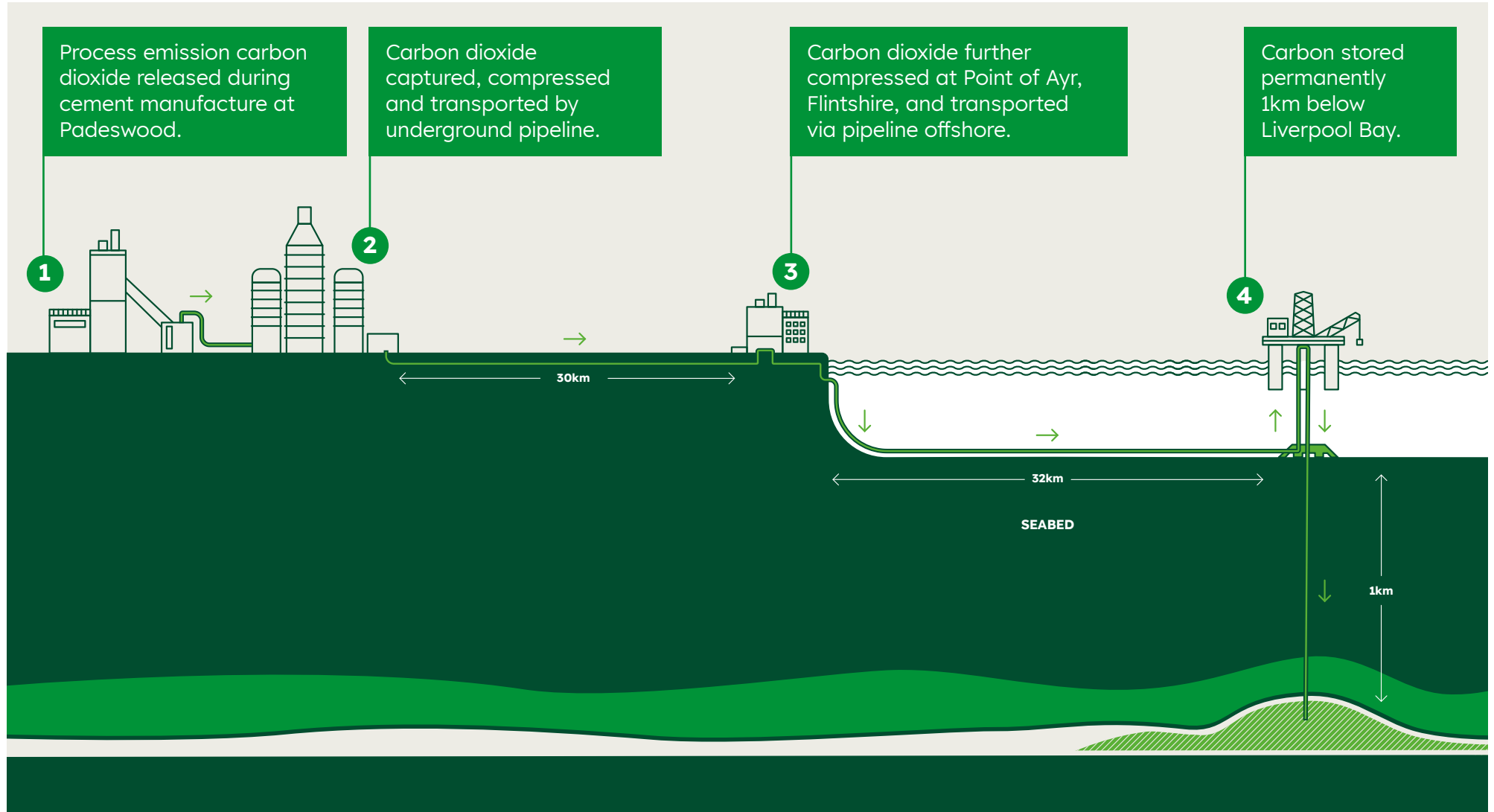
Over the last decade, we have been investing in the Padeswood site to make it more sustainable. However, without carbon capture and storage we will not be able to reach net zero.

Our carbon capture project will:

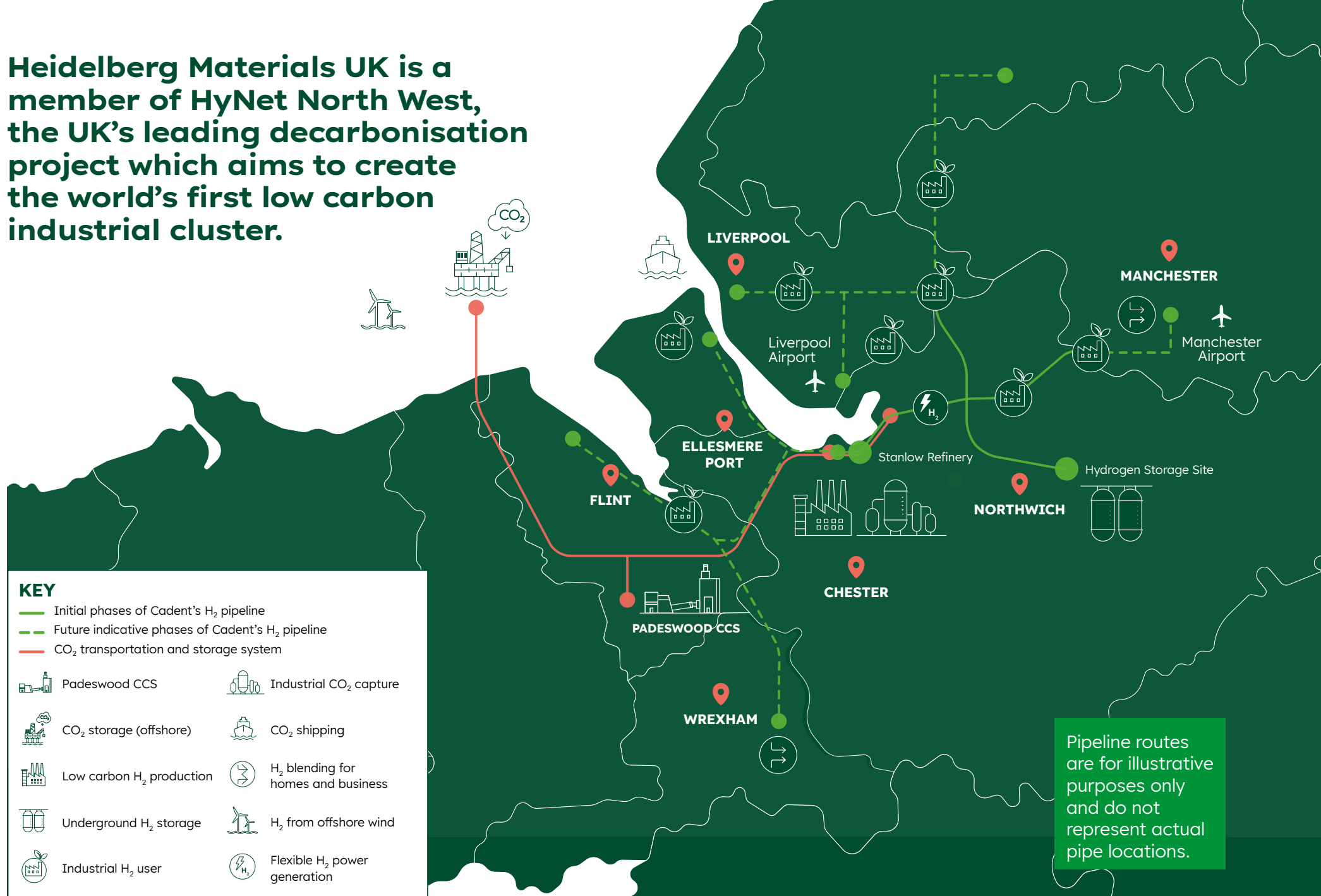
- capture up to 800,000 tonnes of CO₂ annually
- create 54 full-time jobs and up to 350 construction roles
- help to secure a sustainable future for 2,500 people employed in the UK cement industry, 15,000 indirect jobs, and 2.5 million jobs in the construction industry
- bring significant investment to Padeswood cement works and the region's economy.

Heidelberg Materials is one of the world's largest integrated manufacturers of building materials. In the UK, we employ over 4,000 people across 300 sites. We are a leading supplier of lower carbon heavy building materials to the construction industry, and we are committed to achieving net zero by 2050. Our plans to install carbon capture and storage (CCS) technology at our Padeswood site will help us achieve this goal.














Padeswood carbon capture and storage project.



Heidelberg Materials UK is a member of HyNet North West, the UK's leading decarbonisation project which aims to create the world's first low carbon industrial cluster.



KEY

-  Initial phases of Cadent's H₂ pipeline
-  Future indicative phases of Cadent's H₂ pipeline
-  CO₂ transportation and storage system
-  Padeswood CCS
-  Industrial CO₂ capture
-  CO₂ storage (offshore)
-  CO₂ shipping
-  Low carbon H₂ production
-  H₂ blending for homes and business
-  Underground H₂ storage
-  H₂ from offshore wind
-  Industrial H₂ user
-  Flexible H₂ power generation

Pipeline routes are for illustrative purposes only and do not represent actual pipe locations.

Our vision for Padeswood cement works

Padeswood CCS will help the UK achieve its net zero goals by:



Capturing up to **800,000 tonnes of CO₂** a year



Enabling the production of **carbon-neutral building materials**, supporting the construction industry's transition to net zero



Creating **the first net zero cement works in the UK** and demonstrating the pathway to produce evoZero



Playing an **integral role in HyNet North West**, the UK's leading industrial decarbonisation project



Helping to secure a sustainable future for **2,500 people** employed in the UK cement industry, **15,000 indirect jobs**, and **2.5 million jobs** in the construction industry

The project will support the local economy by:



Creating **54 new full-time high skilled jobs** at Padeswood, and **up to 350 jobs during construction**



Protecting 222 direct and indirect jobs



Providing additional **supply chain opportunities**



Upskilling local people so they can contribute to this exciting new sector



Providing capital investment of **over £600 million**



If you'd like to discuss the project, you can:

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