IAPH SUSTAINABILITY AWARDS 2026 · CLIMATE AND ENERGY

CAPCO2

Closing the CO_2 loop from the Port of Vigo

Onboard CO_2 capture with port-based solvent regeneration

Autoridad Portuaria de Vigo · Willbö Engineering 2 Build

THE PILOT IS REAL

A working capture plant, in the port

CAPCO2 pilot plant, Port of Vigo, 2025

THE PILOT IS REAL

Capture hardware and live monitoring

Absorption and regeneration columns

Real-time capture monitoring

THE PILOT IS REAL

Operated by the team that built it

Operations during the certified pilot campaign

July – October 2025

Certified pilot campaign at the Port of Vigo, culminating in a live demonstration for the local maritime industry on 30 October.

INDEPENDENT VALIDATION

Certified by a third party

Approval in Principle, Bureau Veritas

Approval in Principle

Bureau Veritas

Independent classification validation of the capture system, the credential that sets a demonstrated project apart from a concept.

THE CONCEPT

Two port-based logistics routes

VESSEL

Onboard CO_2 capture (MEA)

ROUTE A · Solvent logistics (distinctive to CAPCO2)

Offload rich solvent

in port

→

Regenerate ashore

industrial residual heat → CO_2 captured on land

→

Bunker lean solvent

back to the vessel

Net capture without depending on a mature LCO_2 chain. The port can operate today.

ROUTE B · Conventional liquefied-CO_2 logistics

Receive LCO_2

in port

→

Store

port-side

→

Evacuate

to a permanent sink

The known route, as the LCO_2 infrastructure matures around Vigo.

THE CONCEPT

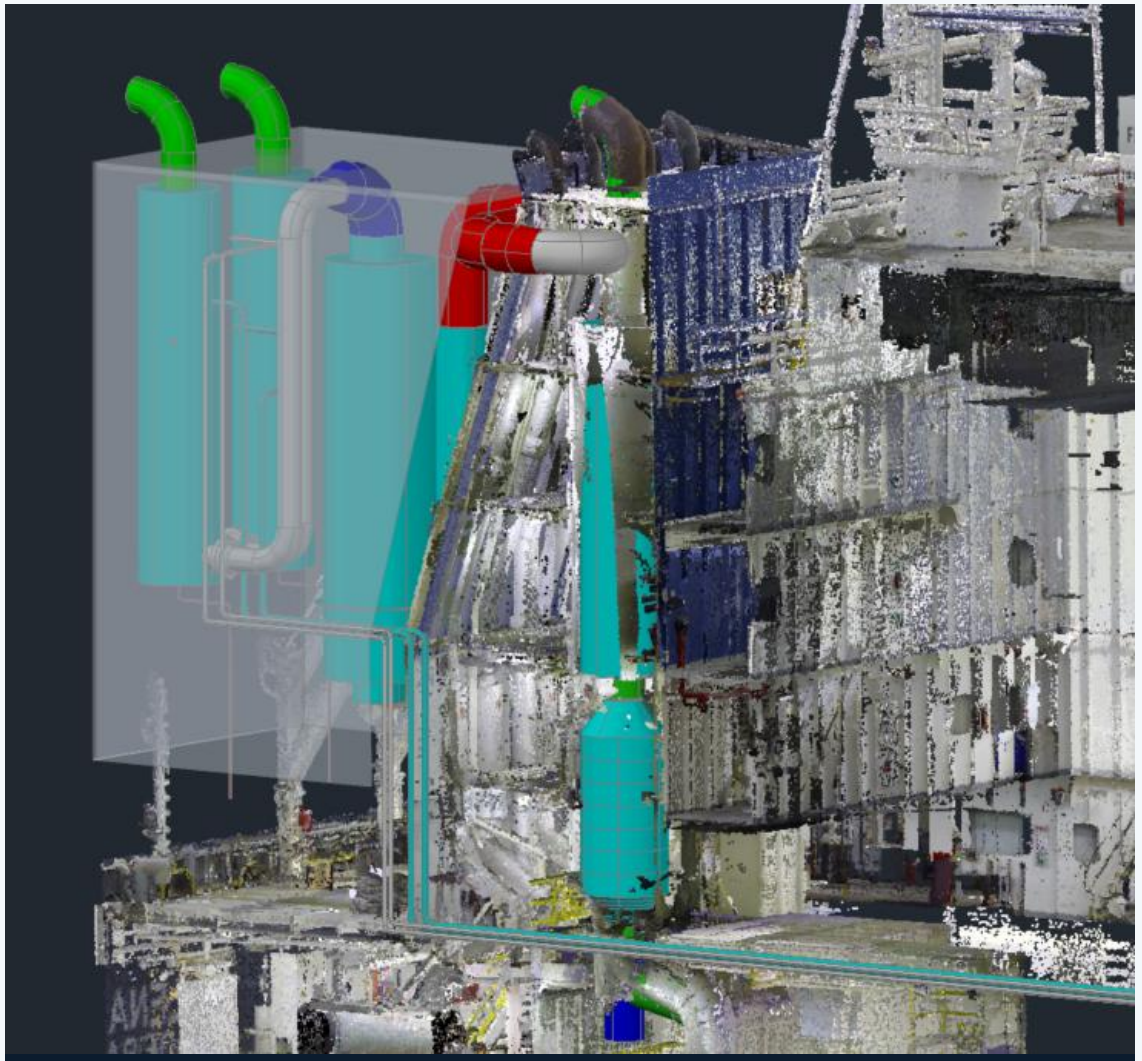
Vigo, first node of a port-based CO_2 logistics layer

Build the piece, don't ask to enter.

The global bottleneck in onboard capture sits ashore, not at sea. Vigo builds the missing port-side piece, and positions itself within the broader European CO_2 corridor.

DEPLOYMENT

Retrofit today, catch-ready by design



Retrofit and catch-ready newbuild deployment

Financiado por la Unión Europea NextGenerationEU

Plan de Recuperación, Transformación y Resiliencia

GOBIERNO DE ESPAÑA MINISTERIO DE INDUSTRIA Y TURISMO

Co-financed by the European Union through the Recovery, Transformation and Resilience Plan (NextGenerationEU)

TECNAVAL25

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Port of Vigo

Port Authority of Vigo

BLUE GROWTH Port of Vigo