EU Projects at Port Esbjerg

Future, innovation and sustainability

PORT ESBJERG

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At Port Esbjerg, we see EU funded projects as a key driver in developing, testing and applying future solutions in practice. Through close collaboration with partners across Europe, we contribute to innovation within infrastructure, logistics and emerging energy systems – always with a clear focus on scalability, practical application and real world implementation.

These projects are built on a shared ambition: to accelerate the transition towards more sustainable solutions and to reduce CO_2 emissions through joint development and knowledge sharing. By bringing together expertise, experience and perspectives across countries and sectors, we contribute to different solutions that are stronger, more resilient and more effective than any organisation could achieve alone.

We participate as an active partner, contributing our operational knowledge and providing a platform where new ideas can be tested, validated and refined under real conditions. At the same time, we learn from our partners and strengthen our own capabilities through continuous collaboration and exchange of knowledge.

The completed NORTHERNSEALYTS project illustrates this approach. By upgrading access and quayside capabilities and strengthening infrastructure capacity, we have improved conditions for both logistics and mobility, while supporting the port's role within wider European transport and infrastructure networks.

Together, the projects presented here demonstrate how collaboration drives innovation – and how shared knowledge and joint effort contribute to practical solutions that support a more sustainable future.

SCCUS

SCCUS aims to develop a solution for small-scale CO_2 capture systems for decentralised biogenic sources. It includes testing automated procedures and integrating infrastructure and application perspectives across different use cases.

The project supports innovation, scalability and collaboration across the carbon capture value chain, contributing to the development of practical and adaptable solutions.

EUDP

H2B:IMPACT

The initiative will establish a large-scale Hydrogen Valley in Bremen, demonstrating production, distribution and cross-sector use of renewable hydrogen across multiple industries. The project develops integrated value chains and new electrolysis capacity.

Port Esbjerg participates as a replication port, building strategic, technical and operational insight for future implementation and knowledge transfer.

Clean Hydrogen Partnership

Co-funded by the European Union

DIOL

The initiative develops innovative offshore logistics to support future renewable energy systems in the North Sea region. The project strengthens infrastructure, improves cooperation across countries and ensures ports can service and maintain offshore installations at scale.

At Port Esbjerg a pilot DronePort will showcase how drones and unmanned technologies can enable smarter, safer, and more sustainable offshore logistics solutions.

Interreg North Sea

Co-funded by the European Union

DIOL

NS H2V Ports

The project develops four master plans for hydrogen infrastructure in Brest, Bremen, Den Helder and Esbjerg, with a focus on creating coherence between production, distribution and maritime applications across the participating port regions.

Through joint planning, governance structures and the development of shared standards, the ports support the scaling of the hydrogen economy while strengthening cooperation on future energy infrastructure across the North Sea region. The project also contributes to improved coordination between ports and partner organisations, enabling a more aligned and structured approach to future development.

Interreg North Sea
Co-funded by the European Union

H2Deri@BSP

The project prepares Baltic Sea ports for the use of hydrogen-based fuels such as methanol and ammonia. The project focuses on market analysis, infrastructure planning, bunkering solutions and regulatory frameworks.

Through collaboration across 15 partners, it supports the transition to low- and zero-carbon maritime fuels while strengthening regional cooperation and alignment across participating organisations.

Interreg Baltic Sea Region

Co-funded by the European Union

ENERGY TRANSITION
H2Deri@BSP

CO2.0 Infrastructure

It demonstrates containerised CO_2 transport using dry ice in modified ISO containers. The project develops a modular and scalable logistics solution enabling smaller emitters to access CCUS value chains.

At Port Esbjerg, a pilot facility will convert dry ice back into liquid CO_2, supporting a fully validated end to end transport chain for future deployment and integration.

EUDP

Completed projects

FOODPORT	Connects food port regions across the North Sea, supporting cooperation and knowledge sharing between ports and industries in five countries.
LO-PINOD	Improves multimodal accessibility and connectivity between regional ports, strengthening transport links and cross-border cooperation.
CRUISE GATEWAY	Supports sustainable growth in North Sea cruise shipping through cooperation, knowledge sharing and development of future solutions.
NORTHERNSEALYTS	Upgraded fairway and quay depths to 12.8 m, improving access for larger vessels and strengthening port capacity and infrastructure.

Learning and innovation

EU projects at Port Esbjerg are not only about developing and testing solutions – they are also about learning, sharing knowledge and building capabilities across organisations and borders.

Each project contributes new insights, experiences and perspectives. Through collaboration, these are developed, challenged and refined, creating value that extends beyond the individual initiative.

At Port Esbjerg, this process is supported by bringing people together – from industry, research and education – to exchange knowledge and strengthen understanding of future solutions in practice.

Together, we contribute to a shared foundation for continued development.

View the projects

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