



ASSOCIATED BRITISH PORTS - DELIVERING NET ZERO IN MARITIME



As the UK's leading ports operator, with 21 ports around Britain handling around a quarter of the UK's seaborne trade, ABP is an essential partner in delivering government objectives on decarbonisation. ABP's strategically located ports are already playing a vital role driving decarbonisation in energy generation, transport and industry, from renewable and low carbon energy production, such as offshore wind, biomass and hydrogen production, to carbon capture, utilisation and storage. This role is set to become even more important as the UK strives towards the target of net zero emissions by 2050.

ABP is investing in decarbonising our own operations while supporting our customers in building sustainable supply chains. Investment across the group has helped to reduce port emissions, down 35% since 2014, and establish renewable energy generation projects onsite at 17 of our 21 ports. ABP is also working with strategic partners to deliver two exciting new projects as part of the Government's Clean Maritime Demonstration Competition, a fund to support the development of green technologies run by the Department for Transport in collaboration with Innovate UK.

Project Mayflower

At the Port of Immingham, the UK's largest port by tonnage, a study into the technological and economic feasibility of producing, supplying, and using green hydrogen has started. The study will create a decarbonisation model within the port, with the aim of formulating a plan for commercialisation in

the future. This will look at the potential options for hydrogen production, transport and storage and as a replacement fuel source for diesel and heavy fuel oil used for transport, through conversion to fuel cells. The development of potential hydrogen applications for port cargo handling machinery will also be analysed and evaluated.

The project will be carried out by a four-company consortium of Uniper, Siemens Energy, ABP, and TTUK, bringing together expertise in project management, port operations and cutting-edge green technology. The project will consider feasibility and the potential for commercialisation, including securing financing, of plans to produce up to 20 MW of green hydrogen for use at the Port of Immingham by 2025.

National Clean Maritime Demonstration Hub

Another exciting project at the Port of Grimsby will examine the potential for infrastructure investment in zero-Emission (ZE) fuels and charging infrastructure, with a view to establishing the port as a national Clean Maritime Demonstration Hub (CMDH). As a global leader in offshore wind operations and maintenance (O&M) services, the port will harness the strength of the offshore wind sector to accelerate the adoption of clean maritime technologies.

The project will identify the infrastructure requirements to support clean maritime operations, including zero emission fuel production, compression, fuelling storage and distribution infrastructure, and onshore and offshore electrical-charging capability. This work will also consider how Grimsby's strategic location and unique role in supporting the offshore wind sector could help deliver significant wider benefits to maritime operations across the Humber and the North East of England.

These projects, combined with ABP's ongoing investment in new green technologies, demonstrate the critical role of ports in driving decarbonisation in the maritime sector. They also illustrate the importance of partnership, across industry and government, in delivering our shared climate objectives.

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