



Joint Press Release
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Clean Maritime Demonstration Competition bid win for Port of Immingham decarbonisation alliance

- Uniper, Siemens Energy, Toyota Tsusho and Associated British Ports have successfully secured matched funding from Clean Maritime Demonstration Competition
- 'Project Mayflower' aims to develop decarbonisation model for maritime sector using hydrogen
- Potential for c.20MW green hydrogen production by 2025
- Feasibility study to commence this month

Uniper, Siemens Energy, Toyota Tsusho and Associated British Ports (ABP) have successfully secured matched funding from the Clean Maritime Demonstration Competition, funded by the Department for Transport and delivered in partnership with Innovate UK. This gives a green light to a feasibility study around the production of green hydrogen which will help develop their vision to decarbonise the Port of Immingham.

The companies plan to develop c. 20MW green hydrogen production for use at the port, either as a direct replacement to diesel and heavy fuel oil, or for the production of clean shipping fuels. Their aim is to tackle the challenge of decarbonising maritime, for which electrification is not a viable solution. Immingham could be the first step in the uptake of hydrogen as an alternative to fossil fuels across the whole maritime sector.

The companies will now undertake a full feasibility study for this exciting project, known as Project Mayflower. The study will review the technical and economic feasibility of reducing port greenhouse gas emissions with hydrogen and develop a clear plan for future development. It will also assess key areas encompassing the conversion of existing infrastructure, the generation and storage of hydrogen and potential end uses of green hydrogen in and around the port.

Successful completion of the feasibility study could enable a front-end engineering design study (FEED) to start in 2022, with potential financial investment decisions in 2023. Green hydrogen production is anticipated by 2025.

Mike Lockett, Uniper UK Country Chairman and Group Chief Commercial Officer Power, commented: "This is excellent news! We're really pleased that we'll now be able to progress our feasibility study, with our partners, in this ground-breaking area. We believe that hydrogen could be an ideal solution for enabling the decarbonisation of those hard to reach sectors such as transport, heavy industry and maritime"

Steve Scrimshaw, Vice President UK&I, Siemens Energy Ltd, said: "Securing this funding means we will be able to assess the full decarbonisation potential of hydrogen in the maritime sector, which has the potential to be replicated at other ports across the world."

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Henrik Pedersen, Chief Executive Officer, Associated British Ports, said: “This successful bid is an exciting and important step in the UK’s journey to Net Zero. We believe that hydrogen will be a game-changer for decarbonising maritime and wider industry and we are delighted that ABP’s Port of Immingham can play a pioneering role.”

Tsuyoshi Iwata, Deputy Managing Director, Toyota Tsusho U.K. Limited, said: “We are very pleased with the result and look forward to working with the partners for the feasibility study. We’re excited to explore the potential for hydrogen to enable the decarbonisation of operations in and around the Port of Immingham.

“We strongly believe that hydrogen will be a solution to achieve the UK’s target of becoming carbon neutral by 2050, and this project will contribute to it.”

Notes to Editors

Uniper brings its existing expertise in the field of hydrogen production to the project and will lead the feasibility study. Uniper owns the nearby Killingholme power station, which could be one of the locations for an electrolyser, powered by renewable energy, to produce hydrogen for the port.

Siemens Energy currently produces some of the worlds most advanced PEM electrolysis units and has an aspiration to be a key player in the UK market, complementing its current products in the renewable sector. Siemens Energy has identified the Humber as a key area to decarbonise in the UK.

ABP operates 21 ports in the UK, including Immingham and brings valuable ports and transport insight. Its Port of Immingham is a major trading gateway and intermodal hub for road, rail and sea transport, making it the ideal location for hydrogen production and distribution. The project demonstrates the critical role ports can play in building sustainable supply chains and accelerating the decarbonisation of the UK’s economy.

Toyota Tsusho UK will carry out an assessment of the conversion, replacement or retrofitting of port equipment, as well as hydrogen refuelling infrastructure and potential achievable GHG reductions.

The Mayflower project is part of the Clean Maritime Demonstration Competition, funded by the Department for Transport and delivered in partnership with Innovate UK.

Announced in March 2020, and part of the Prime Minister’s Ten Point Plan to position the UK at the forefront of green shipbuilding and maritime technology, the Clean Maritime Demonstration Competition is a £20m investment from government alongside a further c.£10m from industry to reduce emissions from the maritime sector. The programme is supporting 55 projects across the UK, including projects in Scotland, Northern Ireland and from the South West to the North East of England. As set out in the Clean Maritime Plan (2019), Government funding has been used to support early stage research relating to clean maritime. The programme will be used to support the research, design and development of zero emission technology and infrastructure solutions for maritime and to accelerate decarbonisation in the sector.



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About Uniper

Uniper is an international energy company with around 12,000 employees in more than 40 countries. The company plans to make its power generation CO₂-neutral in Europe by 2035. With about 35 GW of installed generation capacity, Uniper is among the largest global power generators. Its main activities include power generation in Europe and Russia as well as global energy trading, including a diversified gas portfolio that makes Uniper one of Europe's leading gas companies. In 2020, Uniper had a gas turnover of more than 220 bcm. Uniper is also a reliable partner for municipalities, public utilities, and industrial companies for developing and implementing innovative, CO₂-reducing solutions on their way to decarbonizing their activities. As a pioneer in the field of hydrogen, Uniper is active worldwide along the entire value chain and is implementing projects to make hydrogen usable as a mainstay of energy supply. The company is headquartered in Düsseldorf and currently the third-largest listed German utility. Together with its main shareholder Fortum, Uniper is also the third-largest producer of CO₂-free energy in Europe.

About Uniper UK

In the UK, Uniper operates a flexible generation portfolio of seven power stations, and a fast-cycle gas storage facility. A broad range of commercial activities are offered through the Engineering Services division, while the Uniper Engineering Academy delivers high-quality technical training and government-accredited apprenticeship programmes for the utility, manufacturing and heavy industry sectors.

About Siemens Energy

Siemens Energy is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers. More than 50 percent of the portfolio has already been decarbonized. A majority stake in the listed company Siemens Gamesa Renewable Energy (SGRE) makes Siemens Energy a global market leader for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs more than 90,000 people worldwide in more than 90 countries and generated revenue of around €27.5 billion in fiscal year 2020. Siemens Energy is a registered trademark licensed by Siemens AG.



About Associated British Ports

Associated British Ports (ABP) is the UK's leading ports group, with 21 ports around the UK and Hams Hall Rail Freight Terminal handling around a quarter of the nation's seaborne trade. ABP operates four ports on the Humber, which together constitute the UK's largest ports complex by tonnage, and the Port of Southampton, the UK's number one export port. By facilitating trade and connecting British businesses and manufacturers to global markets, our ports act as important drivers of economic growth in regions around the country. Together with our customers, our ports support 119,000 jobs and contribute £7.5 billion to the UK economy. ABP has the scale, strategic position and expertise to support our customers in building resilient and sustainable supply chains, while enabling the continued growth of the renewable energy sector and industrial decarbonisation. Along with Uniper and ten other industrial partners, ABP is a part of Zero Carbon Humber, a group which aims to deliver the UK's first zero carbon industrial cluster. ABP's experience in delivering ambitious projects to support the growth of the renewable energy sector is exemplified by the group's successful partnership with Siemens Gamesa on the pioneering £310 million Green Port Hull development.

About Toyota Tsusho

Toyota Tsusho Corporation was founded in 1948 as the trading company for the Toyota Group. Today, Toyota Tsusho operates in more than 120 countries with approximately 66,000 Group employees, are all striving to contribute to the creation of prosperous societies. Toyota Tsusho continues to expand as a global leader in vehicle exports and automobile production support. The company has seven operating divisions (Metals/ Global Parts & Logistics/ Automotive/ Machinery, Energy & Project/ Chemicals & Electronics/ Food & Consumer Services/ Africa) focused around three business fields. These are the Mobility field, which contributes to future convenient societies, the Resources & Environment field, which ensures sustainable societies, and the Life & Community field, which supports comfortable and healthy lifestyles.

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