Port of amsterdam energy hub

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In Northwest Europe, demand for green hydrogen is expected to grow exponentially in the coming decades and will exceed the local production potential. In order to meet this growing demand, the import of green hydrogen from countries around the world will be necessary. Recognised as a leading international energy hub, the port of Amsterdam is ready to play a leading role in the import of green hydrogen.

There are several technologies for transporting hydrogen over long distances. The existing assets and infrastructure in the port of Amsterdam allow the handling of hydrogen through multiple vectors:

H2A is a consortium of local and international partners collaborating to import green hydrogen through the port of Amsterdam. The port’s strategic location, infrastructure, and assets make it ideal for importing, storing, distributing, and supplying various forms of green hydrogen to local users and across Northwest Europe.

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The second agreement signed is based on the premise that a key part of this Spanish-Netherlands-German renewable hydrogen corridor, is the connection between the ports of Amsterdam and Duisburg. As part of the existing strategic cooperation between both ports, Port of Amsterdam and duisport signed a Joint Study Agreement, with the specific aim of assessing technical and financial requirements, transport modalities, and infrastructure for the realisation of a resilient supply chain between the two ports.

Over the next six months, they, together with three specialised hydrogen companies, will investigate the feasibility of large scale imports, drawing up a blueprintand outlining a roadmap towards 2030 and beyond.

Port of Amsterdam, Evos, Electriq Global, Hydrogenious and Hysilabs have joined forces to investigate the technical and commercial feasibility of importing and storing hydrogen on an industrial scale. This initiative is dubbed H2A. The parties are jointly working on a blueprint for an import, storage, distribution and trading hub, consisting of facilities with a total throughput capacity of 1 million tonnes of hydrogen per year.

The five parties expect hydrogen to play a central role in the transition to a sustainable energy system. This transition is necessary if we are to meet the European target of becoming climate-neutral by 2050.

The Amsterdam port area is well positioned to play an important role in this transition. For decades, the port has been a leading international hub for the trade in energy products. There are many initiatives underway in the region to develop a green hydrogen cluster, including production facilities. The H2A partners share the

vision that alongside local production of hydrogen, imports are needed to meet future demand in Europe.

Moving to overcome the challenges with transporting and storing compressed and cooled hydrogen, the H2A project is exploring several hydrogen carrier technologies in parallel, also to determine potential energetic and operational synergies between them. Subsequent studies into design and realization, including pilots, are conceivable.

As such the H2A project is an important step towards the realisation of an international supply chain for hydrogen on a commercial scale. Depending on the availability of green hydrogen worldwide and the growth of demand in Europe, such supply chains are expected to scale up towards the end of this decade.

According to Ramon Ernst, Managing Director of Evos Amsterdam, "This project fits perfectly with our ambition to develop infrastructure solutions for a carbon-free energy future. The expertise of Evos lies in the storage and handling of large quantities of energy products and we would like to expand our portfolio with new clean forms. We are pleased to be able to work with capable and motivated partners towards a shared vision."