
NEWS RELEASE

PSA Antwerp trialing hydrogen-powered tractor in green energy bid

Terminal tractor arrives at Europa Terminal for intensive testing

Antwerp, 14 May 2021 - PSA Antwerp is pleased to announce that it will be participating in the trial of a Terberg hydrogen-powered terminal tractor and mobile hydrogen filling station at its Europa Terminal. The tractor, which arrived last Monday and has a carrying capacity of up to 36 tonnes, will be deployed to move containers in the terminal.

The test, which will last two weeks, is part of the Hydrolog project, a demonstrator set up by the Flanders Institute for Logistics (VIL) to map out possible types of internal hydrogen transport vehicles for the industry. At PSA Antwerp, we believe in the potential of hydrogen as a green energy carrier.

Investing in various carbon and pollution abatement projects





PSA Antwerp's carbon emissions are produced mainly from diesel-operated equipment such as straddle carriers, terminal tractors and other terminal vehicles. Besides reducing greenhouse gas emissions (GHG), the company's long term aim is to significantly decrease Nitrogen Oxides (NOx) and Particle Matters (PM) at its terminals. By improving the air quality, we hope to be able to contribute towards a better quality of life and health in the local community.

The experience gained from this trial will also be put towards other pilots to achieve further terminal decarbonisation. For example, in its **Green Straddle Carrier Program**, PSA Antwerp will be setting up a proof of concept with technology partner CMB.TECH to convert diesel engines to dual-fuel (H₂-diesel) on straddle carriers. On 4 May 2021, the **European Horizon 2020 Green Deal Call** awarded the Program a grant, as part of the PIONEERS consortium (PORTable Innovation Open Network For Efficiency and Emissions Reduction Solutions). The grant will allow PSA Antwerp to realise two more demonstrator projects: exploring the injection of up to 90% of hydrogen into the straddle carrier's combustion engine; and testing the performance of a straddle carrier equipped with a hydrogen fuel cell.

Enabling greener logistics choices

Besides being the largest container handler in the Port of Antwerp, PSA Antwerp also aims to be a global leader in Climate Action. The company has put in place a **Climate Response Management System** to align its initiatives, with focus on four key areas: GHG and air quality, renewable energy, water conservation and waste reduction. We are pleased to be part of this tractor testing at PSA Antwerp's Europa Terminal, and to be able to follow up with other hydrogen demonstrator projects.

Examples of environmental protection efforts at PSA Antwerp terminals

			
100% renewable energy	Electric cars & forklifts	No Single Use Plastic	Collecting rainwater
<ul style="list-style-type: none"> - Electrical energy usage fully from renewable sources - CO2 emissions reduced by more than 20%. 	<ul style="list-style-type: none"> - Evolving towards a fleet of hybrid or fully electric company cars - 31 electric cars at the terminals - 15 new forklifts are electric. 	<ul style="list-style-type: none"> - Eliminating the use of 110,000 small plastic trash bags and 6,000 plastic stirrers per year. 	<ul style="list-style-type: none"> - Collecting 345,000 litres of rainwater in tanks for cleaning of rolling equipment; thereby saving 3 million litres of clean potable water each year.

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About PSA Antwerp

PSA Antwerp is the second flagship within the PSA Group. PSA Antwerp operates three container terminals in the Port of Antwerp: Noordzee and Europa Terminals, and the MSC PSA European Terminal (MPET), a joint-venture with TIL. We are also active in general cargo handling on the PSA Breakbulk Terminal. PSA Antwerp has a talented and experienced workforce of around 3,000 employees.

About PSA International

PSA International (PSA) is a leading port group and trusted partner to cargo stakeholders. With flagship operations in Singapore and Antwerp, PSA's global network encompasses over 50 locations in 26 countries around the world. The Group's portfolio comprises more than 60 deepsea, rail and inland terminals, as well as affiliated businesses in distriparks, warehouses and marine services. Drawing on the deep expertise and experience from a diverse global team, PSA actively collaborates with its customers and partners to deliver world-class port services alongside, develop innovative cargo solutions and co-create an Internet of Logistics. As the partner of choice in the global supply chain, PSA is "The World's Port of Call". Visit us at www.globalpsa.com.

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