

## **Alstom and Air Products sign an agreement to develop transport solutions with zero direct emissions in Poland**

- **Air Products will distribute, store hydrogen and provide hydrogen refueling infrastructure**
- **Alstom will provide hydrogen fuel cell powered trains with zero direct emissions**
- **The agreement will bring environmental awareness among operators and suppliers of the transport industry in Poland**

**13 June 2023** – Alstom, global leader in smart and sustainable mobility, and Air Products, world's largest supplier of hydrogen, have signed a cooperation agreement to promote the development of transport solutions with zero direct emissions in Poland. Based on the agreement Air Products will distribute and store hydrogen and provide the hydrogen refuelling infrastructure within its own supply chain. Alstom will provide hydrogen fuel cell-powered trains.

Heavy transport, including trains, buses and trucks, require a rapid energy transition. The joint effort on the Polish ground is a continuation of Air Products' partnership with Alstom undertaken in 2022 with the signing of a letter of intent to decarbonise rail transportation in the Czech Republic through the use of low-carbon hydrogen.

"As a world leader with more than 60 years of experience in safe delivery and hydrogen infrastructure, we are investing in projects that enable low-emission hydrogen. We believe that together with Alstom we can build environmental awareness among operators and suppliers of the transport industry in Poland. We want to implement solutions for hydrogen fuelling of transportation means, including rail vehicles. Together we will prove that hydrogen is applicable to railroads, and that the operation of hydrogen trains is a robust technology that is both safe and environmentally friendly, as well as economically efficient," **said Jacek Cichosz, President of the Management Board, Air Products in Poland.**

"Decarbonising transportation and moving toward carbon neutrality requires real and immediate action. The development of innovative rail transportation is the right answer to this challenge. Alstom was the first to introduce a hydrogen train for commercial use, which is already being successfully used in passenger traffic. Thus, the Coradia iLint™ is the world's first operating passenger hydrogen train with zero direct emissions that is also energy efficient. Based on our experience in developing innovative technologies, together with Air Products, we are ready to introduce the hydrogen train to Polish railways, thus participating in the hydrogen revolution," **said Sławomir Cyza, CEO and Managing Director of Alstom in Poland, Ukraine and Baltic States.**

In Poland, Air Products has pioneered deployments of hydrogen-powered public transportation. After demonstrating a hydrogen-powered city bus in Jaworzno, conducted jointly with partners bus manufacturer Solaris, PKM Jaworzno and the city government, the company has taken another step toward applying hydrogen to transportation, this time by rail. In Europe, Air Products opened its first

hydrogen refuelling station back in 1994 and continues to make significant progress in the application of hydrogen both as a transportation fuel and as a fuel for power generation.

Alstom has extensive expertise in propulsion technologies for non-electrified networks, and offers a large portfolio of green traction products for hydrogen, battery, hybrid and bi-mode catenary and hydrogen applications. As a leader in sustainable mobility, Alstom has developed the world's first hydrogen fuel cell powered passenger train, Coradia iLint™. The train was first put into service in 2018 in Germany. Since then, it has been tested in Austria, the Netherlands, Sweden, Poland and France. In addition, Alstom presented the hydrogen train in the Czech Republic and Slovakia during its Railshow which occurred on 17-25 May 2022.

By combining Alstom's state of the art hydrogen technologies and Air Products' 60 years of experience in the production and distribution of hydrogen, the partners guarantee significant technological advances and gain a joint competitive advantage in the market. The cooperation undertaken by Air Products and Alstom opens Polish rail transportation to future zero-emission technologies. Both companies, as pioneers in the country's hydrogen industry, are constantly taking important steps to accelerate the energy transformation of transportation and other sectors of the economy.

Alstom™ and Coradia iLint™ are protected trademarks of the Alstom Group.

## About Alstom

Alstom commits to contribute to a low carbon future by developing and promoting innovative and sustainable transportation solutions that people enjoy riding. From high-speed trains, metros, monorails, trams, to turnkey systems, services, infrastructure, signalling and digital mobility, Alstom offers its diverse customers the broadest portfolio in the industry. With its presence in 63 countries and a talent base of over 80,000 people from 175 nationalities, the company focuses its design, innovation, and project management skills to where mobility solutions are needed most. Listed in France, Alstom generated revenues of €16.5 billion for the fiscal year ending on 31 March 2023.

For more information, please visit [www.alstom.com](http://www.alstom.com).

## About Air Product

Air Products (NYSE:APD) is a world-leading industrial gases company in operation for over 80 years focused on serving energy, environmental, and emerging markets. The Company has two growth pillars driven by sustainability. Air Products' base business provides essential industrial gases, related equipment and applications expertise to customers in dozens of industries, including refining, chemicals, metals, electronics, manufacturing, and food. The Company also develops, engineers, builds, owns and operates some of the world's largest industrial gas and carbon-capture projects, supplying world-scale clean hydrogen for global transportation, industrial markets, and the broader energy transition. Additionally, Air Products is the world leader in the supply of liquefied natural gas process technology and equipment, and globally provides turbomachinery, membrane systems and cryogenic containers. The Company had fiscal 2022 sales of \$12.7 billion from operations in over 50 countries and has a current market capitalization of more than \$60 billion. More than 21,000 passionate, talented and committed employees from diverse backgrounds are driven by Air Products' higher purpose to create innovative solutions that benefit the environment, enhance sustainability and reimagine what's possible to address the challenges facing customers, communities, and the world. For more information, visit: [www.airproducts.com.pl](http://www.airproducts.com.pl) or follow us on: [LinkedIn](#), [Twitter](#), [Facebook](#) or [Instagram](#).

## Contacts

### Press:

#### Alstom

Anna ZAŁUSKA (CEE) – Tel.: +48 601 145 935  
[anna.zaluska@alstomgroup.com](mailto:anna.zaluska@alstomgroup.com)

Patrycja NOJSZEWSKA (POLAND) – Tel.: +48 609 424 535  
[patrycja.nojszewska@fleishmaneuropa.com](mailto:patrycja.nojszewska@fleishmaneuropa.com)

#### Air Products

Nicola LONG (EUROPE) – Tel.: +44 (1932) 249532  
[longn@airproducts.com](mailto:longn@airproducts.com)

Hanna DYMEK-JARA (POLAND) – Tel.: + 22 623 07 00  
[hdymek@questiapr.pl](mailto:hdymek@questiapr.pl)