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Alstom and Plastic Omnium partner to design onboard hydrogen storage solutions for railway

Alstom, the global leader in sustainable railway transportation and Plastic Omnium, a major player in hydrogen mobility, have signed a Memorandum of Understanding (MoU) to collaborate on the development of high-end hydrogen storage systems for the railway sector.

Alstom and Plastic Omnium will cooperate and combine their complementary know-how and capabilities in their respective domains. A dedicated team has been set up to manage the technical and commercial development of innovative and competitive hydrogen onboard storage-solutions for the railway market.

This will enable the two partners, following development projects which have already started, to launch hydrogen storage solutions on the market for regional trains in France and Italy, starting in 2022, allowing direct journeys on non-electrified lines without using fossil fuels, while meeting the challenges of sustainable development.

Rail, alongside trucks, bus and commercial fleet sectors, is one of the first industries to develop zero-emission hydrogen mobility, opening up new growth prospects in a promising market.

Christian Kopp CEO of Plastic Omnium Clean Energy Systems division said: "Our partnership with Alstom aims to develop high-performance hydrogen solutions capable of tackling the sustainability challenges facing railway transportation. It is another step on the path toward carbon-free mobility and further confirmation of our Group's expertise in hydrogen solutions and its potential for growth as it reaches out to a new customer base."

"The emergence of a strong hydrogen ecosystem is of critical importance for driving the development of hydrogen rail as a zero emissions alternative for regional rail. The planned combination of Plastic Omnium's expertise in hydrogen storage solutions and our expertise in hydrogen trains is in this regard an important milestone to build an innovative and strong hydro rail value chain," said Thierry Best, Chief Commercial Officer at Alstom.

About Alstom

Leading societies to a low carbon future, Alstom develops and markets mobility solutions that provide the sustainable foundations for the future of transportation. Alstom's products portfolio ranges from high-speed

trains, metros, monorail and trams to integrated systems, customised services, infrastructure, signalling and digital mobility solutions. Alstom has 150,000 vehicles in commercial service worldwide. With Bombardier Transportation joining Alstom on January 29, 2021, the enlarged Group's combined proforma revenue amounts to €14 billion for the 12-month period ended March 31, 2021. Headquartered in France, Alstom is now present in 70 countries and employs more than 70,000 people. www.alstom.com

About Plastic Omnium

A world leader, Plastic Omnium provides innovative solutions for a more connected and sustainable mobility. The Group develops and produces intelligent exterior systems, clean energy systems and customized complex modules. With an international footprint of 135 plants and 25 R&D centers, Plastic Omnium relies on its 31,000 employees to meet the challenges of clean and smart mobility. Innovation-driven since its creation, Plastic Omnium is now paving the way for zero-carbon mobility through its investments in hydrogen solutions, where the Group has ambitions to become world leader throughout the entire value chain.

Plastic Omnium is listed on Euronext Paris, compartment A, and is included in the SRD (deferred settlement service) and SBF 120 and CAC Mid 60 indices (ISIN code: FR0000124570). www.plasticomnium.com

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