

OPmobility presents its technologies for decarbonizing mobility at IAA Transportation 2024 in Hanover



OPmobility and its joint venture EKPO Fuel Cell Technologies will be exhibiting for the second year running at IAA Transportation in Hanover, Germany, from September 16 to 22, 2024. The Group will stand at this major event to showcase its line-up of hydrogen and battery electrification solutions designed to decarbonize heavy and commercial mobility (trucks, buses, and light commercial vehicles).

You can find OPmobility in Hall 12, booth D39

Laurent Favre, Chief Executive Officer of OPmobility, comments: "OPmobility is a group with a unique position in the market, able to offer its customers all the solutions needed to decarbonize vehicles. At IAA Transportation, we will be showcasing the full range of our technological capabilities: we have a broad portfolio of solutions, covering battery-powered and hydrogen-powered applications, to make the energy transition in the mobility sector a reality today."

Hydrogen electrification technologies presented by OPmobility

OPmobility has developed a complete line-up of solutions for hydrogen vehicles, whether using a fuel cell or internal combustion engine.

- The **150kW FCM** (Fuel Cell Module) is the latest generation fuel cell system developed by OPmobility for use in heavy trucks of 16 tonnes and over. It includes the NM12 Twin fuel cell developed by EKPO that instantly produces electricity from hydrogen and oxygen in the air to power the vehicle's electric motor. The fuel cell is built into a system that manages all the associated functions including thermal control, electric and electronic management, and the supply of air and hydrogen.
- The **high-pressure hydrogen vessel system** for trucks stores hydrogen to power the fuel cell. Comprising six type IV carbon-fiber vessels, they hold around 35 kg of hydrogen at 350 bar pressure for a range of 350 to 450 kilometers, and over 57 kg of hydrogen at 700 bar for 750 kilometers in a single fill.
- The **hydrogen vessel health monitoring system** is a smart system that uses sensors to analyze the status of on-board vessels during in-vehicle use. The aim is to simplify maintenance and extend lifetimes.



- The **SCR system** (selective catalytic reduction) **for hydrogen-powered internal combustion engines** is a tried-and-tested solution for eliminating residual nitrous oxide (NOx) emissions from vehicles fitted with hydrogen-powered internal combustion engines.

Battery electrification technologies presented by OPmobility

OPmobility is showcasing its battery systems for buses and heavy trucks. The systems can be used with NMC and LTO batteries, and incorporate all battery functions (electrochemical, electronic, safety, mechanical and thermal engineering).

- The **high-voltage energy battery system** for electric vehicle applications is the latest generation of heavy mobility system developed by OPmobility. This 95kWh battery module operates at 640V and offers a gravimetric density in excess of 180Wh/kg. It is specially designed to meet the high demands of heavy mobility.
- The **power battery system** is perfectly suited to industrial vehicles that are used intensively with rapid charging and discharging requirements. This system also meets the performance requirements of hydrogen vehicles, providing back-up to the fuel cell system to improve overall performance and lifetimes.
- The **voltage converter** (DC-DC converter), an essential component in every electric vehicle, improves overall vehicle efficiency by adapting the 400V-800V battery voltage to match the voltage used by the vehicle's on-board network.

About OPmobility

OPmobility (formerly Plastic Omnium) is a world leader in sustainable mobility and a worldwide technology partner to actors from every mobility sector. Innovation-driven since its foundation in 1946, OPmobility has five complementary Business Groups offering its customers a wide range of solutions: intelligent exterior systems, customized complex modules, lighting systems, energy storage systems, and battery and hydrogen electrification solutions. OPmobility's customers also benefit from OP'nSoft, its inhouse software development specialist. With €11.4 billion economic revenue in 2023 and an international footprint of 152 plants and 40 R&D centers, OPmobility relies on its 40,300 employees to meet the challenges of making mobility more sustainable.

OPmobility is listed on Euronext Paris, compartment A. It is eligible for the Deferred Settlement Service (SRD) and is part of the SBF 120 and CAC Mid 60 indices (ISIN code: F FR0000124570). www.opmobility.com



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